



MSD

October 15, 2001

Mr. Femi Akindele
Residual Project Manager
Kentucky/Tennessee Section
U.S. Environmental Protection Agency
Region IV
61 Forsyth Street
Atlanta, GA 30303

Re: Sampling Event # 27, Result of Groundwater Quality Monitoring - FY 01, First Quarter (FY02-1Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No-91-32-C

Dear Mr. Akindele

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.4, Groundwater Quality Monitoring, attached for your information files is one photocopy each of the following analyses and reports prepared by Heritage Laboratories, Inc., 7901 W. Morris Street, Indianapolis, Indiana 46231 for MSD.

The data package contains all of the analytical results and Quality Assurance reports for samples relating to the event.

Certificate of Analysis			
<u>WELL</u> <u>LOCATION</u>	<u>SAMPLE</u> <u>DESCRIPTION</u>	<u>LAB</u> <u>ID</u>	<u>REPORT</u> <u>LENGTH</u>
MW-02	LLMW0227	A566291	8 pages
MW-04	LLMW0427	A566287	8
Duplicate	LLMW0427DUP	A566288	8
MW-05	LLMW0527	A566290	8
MW-A	LLMWA27	A566293	8
MW-B	LLMW027	A566292	8
Field Blank	LLMW27FB	A566289	8



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U.S. EPA REGION IV

SDMS

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**** PLEASE CONTACT THE APPROPRIATE RECORDS CENTER TO VIEW THE MATERIAL****

Mr. Femi Akindele
October 15, 2001
Page 2

Quality Assurance Reports

DESCRIPTION

Quality Assurance Report

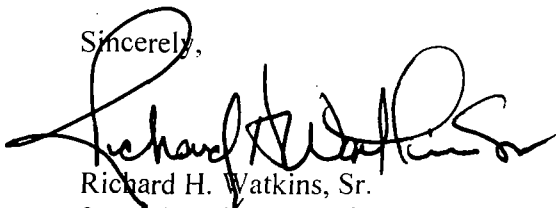
REPORT
LENGTH

34 pages

The above identified Certificate of Analysis and Quality Assurance Reports were received by the undersigned on October 15, 2001 and transmitted within the five (5) working day requirement of Paragraph 11 of the Consent Order.

Please advise if you have any questions concerning the attached information.

Sincerely,



Richard H. Watkins, Sr.
Special Assistant to Director
RHW/rw
Lees-02-1Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet
Mr. Rick Hogan, Division of Waste Management
G. R. Garner, Executive Director
Lees Lane File

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 13-SEP-01	Project	Lab ID A566291
	Complete 25-SEP-01	PO Number DP 00151	
	Printed 25-SEP-01	Sampled 13-SEP-01 15:45	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
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Sample Description CLIENT ID: MW-0227 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: MW-0227 Submitter Code :4217
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VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS		Analysis Date: 19-SEP-01 10:17	Instrument: GC/MS VOA	Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

LABORATORY SERVICES
TERMS & CONDITIONS

1. Agreement- To initiate services, Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
2. Fees- Heritage shall provide services at the prices stated in its Quotation. Heritage reserves the right to change prices after providing Client with a 30 day notification.
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 - b. of negligent acts, errors or omissions of the Client, or
 - c. of Client's failure to perform its obligations under this Agreement.

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	118		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	101		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: V. BROWN

Analysis Date: 18-SEP-01

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

NELAC:Y

Analyst: L. CALLAHAN

Analysis Date: 21-SEP-01 20:51

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	48		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	31		% Rec
NITROBENZENE-D5	86		% Rec
2-FLUOROBIPHENYL	69		% Rec
2,4,6-TRIBROMOPHENOL	73		% Rec
TERPHENYL-D14	48		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

NELAC:Y

Analyst: T. PINCKERT

Analysis Date: 21-SEP-01 02:04

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	99.2		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

TERMS & CONDITIONS

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Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M101.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M102.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
BARIUM	0.18	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M105.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M109.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CALCIUM	100	0.10	mg/L

CHROMIUM ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC: Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:48	Instrument: ICP	Test: M111.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

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COPPER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M112.3.0
Parameter	Result	Det. Limit	Units	
COPPER	BDL	0.020	mg/L	

IRON ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M115.3.0
Parameter	Result	Det. Limit	Units	
IRON	4.3	0.025	mg/L	

MAGNESIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M118.3.0
Parameter	Result	Det. Limit	Units	
MAGNESIUM	33.	0.10	mg/L	

MANGANESE ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M119.3.0
Parameter	Result	Det. Limit	Units	
MANGANESE	0.19	0.010	mg/L	

NICKEL ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M122.3.0
Parameter	Result	Det. Limit	Units	
NICKEL	0.010	0.010	mg/L	

POTASSIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M126.3.0
Parameter	Result	Det. Limit	Units	
POTASSIUM	1.9	0.10	mg/L	

SILVER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M130.3.0
Parameter	Result	Det. Limit	Units	
SILVER	BDL	0.010	mg/L	

SODIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M131.3.0
Parameter	Result	Det. Limit	Units	
SODIUM	10.	0.10	mg/L	

VANADIUM ICP SW846-6010B				NELAC:N
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:48		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M138.3.0
Parameter	Result	Det. Limit	Units	

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:48

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:39

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:39

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:39

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:39

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: J. O'BRYAN

Analysis Date: 17-SEP-01 12:30

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A

NELAC:Y

Analyst: J. O'BRYAN

Analysis Date: 18-SEP-01 12:39

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: T. DRIGGERS

Analysis Date: 23-SEP-01 13:00

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

NELAC:Y

Analyst: B. FOX

Analysis Date: 24-SEP-01 08:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

The sample results relate only to the analytes of interest tested or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.

Arizona License Number AZ0627.

Approved : P. J. Sance OAO

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	13-SEP-01		A566287
	Complete	PO Number	
	25-SEP-01	DP 00151	
	Printed	Sampled	
	25-SEP-01	13-SEP-01 10:50	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
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Sample Description CLIENT ID: MW-0427 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: MW-0427 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS	Analysis Date: 19-SEP-01 07:57	Instrument: GC/MS VOA	Test: 0510.3.0	
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

~~LABORATORY SERVICES~~
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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	99		% Rec
TOLUENE-D8	108		% Rec
BROMOFLUOROBENZENE	95		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C			
Analyst: V. BROWN	Analysis Date: 18-SEP-01	Instrument: PREP	Test: P233.4.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C			
Analyst: L. CALLAHAN	Analysis Date: 21-SEP-01 18:09	Instrument: GC/MS SVOA	Test: 0505.3.0
Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0			
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	51		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	41		% Rec
NITROBENZENE-D5	93		% Rec
2-FLUOROBIPHENYL	75		% Rec
2,4,6-TRIBROMOPHENOL	78		% Rec
TERPHENYL-D14	45		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

NELAC:Y

Analyst: T. PINCKERT

Analysis Date: 20-SEP-01 21:09

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	73.4		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

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Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M101.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M102.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M104.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
BARIUM	0.12	0.010	mg/L

BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M105.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M108.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M109.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
CALCIUM	120	0.10	mg/L

CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M110.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:15 Instrument: ICP Test: M111.3.0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
COBALT	BDL	0.010	mg/L

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COPPER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M112.3.0
Parameter	Result	Det. Limit	Units	
COPPER	BDL	0.020	mg/L	

IRON ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M115.3.0
Parameter	Result	Det. Limit	Units	
IRON	6.2	0.025	mg/L	

MAGNESIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M118.3.0
Parameter	Result	Det. Limit	Units	
MAGNESIUM	40.	0.10	mg/L	

MANGANESE ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M119.3.0
Parameter	Result	Det. Limit	Units	
MANGANESE	0.14	0.010	mg/L	

NICKEL ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M122.3.0
Parameter	Result	Det. Limit	Units	
NICKEL	0.011	0.010	mg/L	

POTASSIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M126.3.0
Parameter	Result	Det. Limit	Units	
POTASSIUM	3.0	0.10	mg/L	

SILVER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M130.3.0
Parameter	Result	Det. Limit	Units	
SILVER	BDL	0.010	mg/L	

SODIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M131.3.0
Parameter	Result	Det. Limit	Units	
SODIUM	29.	0.10	mg/L	

VANADIUM ICP SW846-6010B				NELAC:N
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:15		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M138.3.0
Parameter	Result	Det. Limit	Units	

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:15	Instrument: ICP	Test: M139.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 15:56	Instrument: TRACE ICP	Test: M103.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ARSENIC	0.011	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 20-SEP-01 21:48	Instrument: TRACE ICP	Test: M116.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
LEAD	0.0068	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 15:56	Instrument: TRACE ICP	Test: M128.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 23-SEP-01 23:07	Instrument: TRACE ICP	Test: M134.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A			
Analyst: J. O'BRYAN	Analysis Date: 17-SEP-01 12:30	Instrument: PREP	Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y			
Analyst: J. O'BRYAN	Analysis Date: 18-SEP-01 12:39	Instrument: CVAA	Test: M120.1.0
Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0			

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A			
Analyst: T. DRIGGERS	Analysis Date: 23-SEP-01 13:00	Instrument: PREP	Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012 NELAC:Y			
Analyst: B. FOX	Analysis Date: 24-SEP-01 08:45	Instrument: AUTO-ANALYZER	Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0			

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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

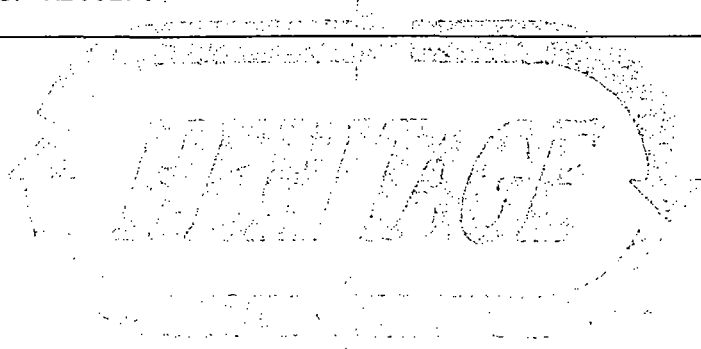
This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Arizona License Number AZ0627.



Approved :

PK Seneo OAO

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 13-SEP-01	Project	Lab ID A566288
	Complete 25-SEP-01	PO Number DP 00151	
	Printed 25-SEP-01	Sampled 13-SEP-01 10:50	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
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Sample Description CLIENT ID: DUP@MW-0427 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: DUP@MW-0427 Submitter Code :4217
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VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS		Analysis Date: 19-SEP-01 08:31	Instrument: GC/MS VOA	Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	10	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	5.0	ug/L
XYLENE (TOTAL)	BDL		
SURROGATE RECOVERY			% Rec
	124		% Rec
DICHLOROETHANE-D4	122		% Rec
TOLUENE-D8	106		% Rec
BROMOFLUOROBENZENE			
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C			
Analyst: V. BROWN	Analysis Date: 18-SEP-01	Instrument: PREP	Test: P233.4.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C			
Analyst: L. CALLAHAN	Analysis Date: 21-SEP-01 18:49	Instrument: GC/MS SVOA	Test: 0505.3.0
Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0			
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL		

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHthalate	BDL	10	ug/L
DIMETHYLPHthalate	BDL	10	ug/L
DI-N-BUTYLPHthalate	BDL	50	ug/L
DINITROBENZENES	BDL	10	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHthalate	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	50	ug/L
NAPHTHALENE	BDL	50	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	10	ug/L
4-NITROANILINE	BDL	10	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	50	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	10	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	50	ug/L
2,4-DIMETHYLPHENOL	BDL	50	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	10	ug/L
2,4-DINITROPHENOL	BDL	10	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	50	ug/L
2-NITROPHENOL	BDL	50	ug/L
4-NITROPHENOL	BDL	10	ug/L
PENTACHLOROPHENOL	BDL	10	ug/L
PHENOL	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL		
2,4,6-TRICHLOROPHENOL	BDL		
SURROGATE RECOVERY			% Rec
2-FLUOROPHENOL	50		

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Parameter	Result	Det. Limit	Units
PHENOL-D5	43		% Rec
NITROBENZENE-D5	93		% Rec
2-FLUOROBIPHENYL	76		% Rec
2,4,6-TRIBROMOPHENOL	81		% Rec
TERPHENYL-D14	58		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

NELAC:Y

Analyst: T. PINCKERT

Analysis Date: 20-SEP-01 23:00

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	92.0		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

LABORATORY SERVICES
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Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M101.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M102.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M104.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
BARIUM	0.12	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M105.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M108.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M109.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
CALCIUM	120	0.10	mg/L

CHROMIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M110.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:38 Instrument: ICP Test: M111.3.0			
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

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COPPER ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

NELAC:Y

Test: M112.3.0

IRON ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
IRON	6.1	0.025	mg/L

NELAC:Y

Test: M115.3.0

MAGNESIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
MAGNESIUM	41.	0.10	mg/L

NELAC:Y

Test: M118.3.0

MANGANESE ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
MANGANESE	0.14	0.010	mg/L

NELAC:Y

Test: M119.3.0

NICKEL ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

NELAC:Y

Test: M122.3.0

POTASSIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
POTASSIUM	2.8	0.10	mg/L

NELAC:Y

Test: M126.3.0

SILVER ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

NELAC:Y

Test: M130.3.0

SODIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
SODIUM	30.	0.10	mg/L

NELAC:Y

Test: M131.3.0

VANADIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:38	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			
Parameter	Result	Det. Limit	Units
VANADIUM			

NELAC:N

Test: M138.3.0

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:38	Instrument: ICP	Test: M139.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:26	Instrument: TRACE ICP	Test: M103.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ARSENIC	0.011	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:26	Instrument: TRACE ICP	Test: M116.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:26	Instrument: TRACE ICP	Test: M128.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:26	Instrument: TRACE ICP	Test: M134.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A			
Analyst: J. O'BRYAN	Analysis Date: 17-SEP-01 12:30	Instrument: PREP	Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y			
Analyst: J. O'BRYAN	Analysis Date: 18-SEP-01 12:39	Instrument: CVAA	Test: M120.1.0
Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0			

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A			
Analyst: T. DRIGGERS	Analysis Date: 23-SEP-01 13:00	Instrument: PREP	Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012 NELAC:Y			
Analyst: B. FOX	Analysis Date: 24-SEP-01 08:45	Instrument: AUTO-ANALYZER	Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0			
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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

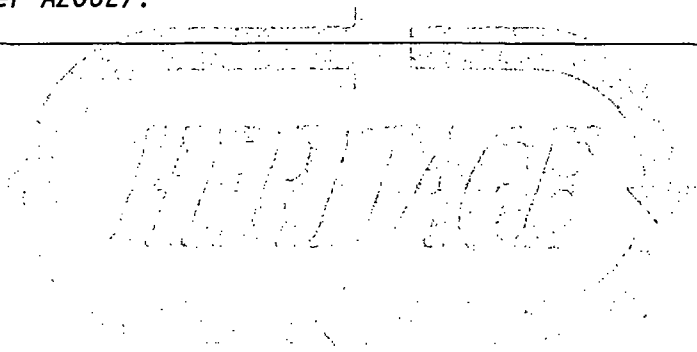
This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Arizona License Number AZ0627.



Approved : PK Seave OAO

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 13-SEP-01	Project	Lab ID A566290
	Complete 26-SEP-01	PO Number DP 00151	
	Printed 27-SEP-01	Sampled 13-SEP-01 13:25	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
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Sample Description CLIENT ID: MW-0527 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: MW-0527 Submitter Code :4217
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VOLATILE ORGANICS SW846-8240B		NELAC:N	
Analyst: H. WILLIAMS	Analysis Date: 19-SEP-01 09:41	Instrument: GC/MS VOA	Test: 0510.3.0
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	132		% Rec
TOLUENE-D8	122		% Rec
BROMOFLUOROBENZENE	98		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: V. BROWN

Analysis Date: 18-SEP-01

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

NELAC:Y

Analyst: L. CALLAHAN

Analysis Date: 21-SEP-01 20:10

Instrument: GC/MS-SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	54		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	47		% Rec
NITROBENZENE-D5	88		% Rec
2-FLUOROBIPHENYL	74		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	41		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C			
Analyst: S. BRYAN	Analysis Date: 17-SEP-01	Instrument: PREP	Test: P233.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081			NELAC:Y
Analyst: T. PINCKERT	Analysis Date: 21-SEP-01 01:27	Instrument: GC/ECD	Test: 0305.1.0
Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0			
Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	84.0		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A			
Analyst: M. HALL	Analysis Date: 18-SEP-01 10:00	Instrument: PREP	Test: P130.4.0

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Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	20		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M101.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	3.8	0.12	mg/L

ANTIMONY ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M102.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.025	mg/L

BARIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M104.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	3.9	0.025	mg/L

BERYLLIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M105.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.010	mg/L

CADMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M108.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.012	mg/L

CALCIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M109.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	100	0.25	mg/L

CHROMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M110.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	0.026	0.025	mg/L

COBALT ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Instrument: ICP Test: M111.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	0.072	0.025	mg/L

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COPPER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M112.3.0
Parameter	Result	Det. Limit	Units	
COPPER	BDL	0.050	mg/L	

IRON ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M115.3.0
Parameter	Result	Det. Limit	Units	
IRON	160	0.062	mg/L	

MAGNESIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M118.3.0
Parameter	Result	Det. Limit	Units	
MAGNESIUM	36.	0.25	mg/L	

MANGANESE ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M119.3.0
Parameter	Result	Det. Limit	Units	
MANGANESE	1.2	0.025	mg/L	

NICKEL ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M122.3.0
Parameter	Result	Det. Limit	Units	
NICKEL	0.14	0.025	mg/L	

POTASSIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M126.3.0
Parameter	Result	Det. Limit	Units	
POTASSIUM	20.	0.25	mg/L	

SILVER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M130.3.0
Parameter	Result	Det. Limit	Units	
SILVER	BDL	0.025	mg/L	

SODIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M131.3.0
Parameter	Result	Det. Limit	Units	
SODIUM	42.	0.25	mg/L	

VANADIUM ICP SW846-6010B				NELAC:N
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:44		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M138.3.0
Parameter	Result	Det. Limit	Units	

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.025	mg/L

ZINC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:44

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.050	mg/L

ARSENIC TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:35

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	1.1	0.012	mg/L

LEAD TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 20-SEP-01 21:53

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	0.17	0.012	mg/L

SELENIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:35

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.012	mg/L

THALLIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 23-SEP-01 23:12

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.025	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: J. O'BRYAN

Analysis Date: 17-SEP-01 12:30

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A

NELAC:Y

Analyst: J. O'BRYAN

Analysis Date: 18-SEP-01 12:39

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: T. DRIGGERS

Analysis Date: 23-SEP-01 13:00

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

NELAC:Y

Analyst: B. FOX

Analysis Date: 24-SEP-01 08:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0			
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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

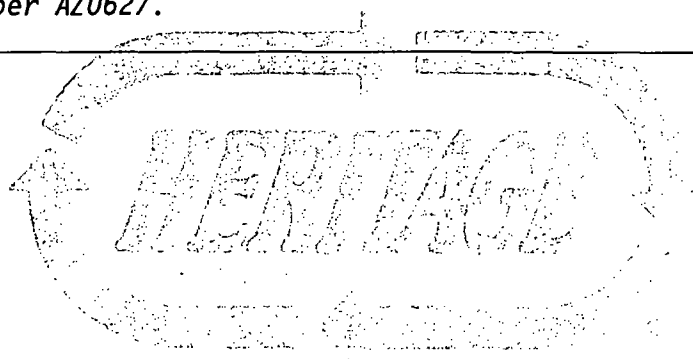
This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Arizona License Number AZ0627.



Approved : h.r. Serna DAO

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 13-SEP-01	Project	Lab ID A566293
	Complete 25-SEP-01	PO Number DP 00151	
	Printed 25-SEP-01	Sampled 13-SEP-01 18:50	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
Sample Description CLIENT ID: MW-A27 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: MW-A27 Submitter Code :4217	

VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS		Analysis Date: 19-SEP-01 12:43		Instrument: GC/MS VOA
				Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	10	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	5.0	ug/L
XYLENE (TOTAL)	BDL		
SURROGATE RECOVERY			% Rec
DICHLOROETHANE-D4	127		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	99		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C		Test: P233.4.0	
Analyst: V. BROWN		Instrument: PREP	
Analysis Date: 18-SEP-01			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	980		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C		Test: 0505.3.0	
Analyst: L. CALLAHAN		Instrument: GC/MS SVOA	
Analysis Date: 21-SEP-01 22:12			
Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0			
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	51	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	51	ug/L
3-NITROANILINE	BDL	51	ug/L
4-NITROANILINE	BDL	51	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	51	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	51	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	51	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	51	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	51	ug/L
2,4-DINITROPHENOL	BDL	51	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	51	ug/L
PENTACHLOROPHENOL	BDL	51	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	51	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	55		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	37		% Rec
NITROBENZENE-D5	97		% Rec
2-FLUOROBIPHENYL	79		% Rec
2,4,6-TRIBROMOPHENOL	81		% Rec
TERPHENYL-D14	59		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

NELAC:Y

Analyst: T. PINCKERT

Analysis Date: 21-SEP-01 03:18

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	103.2		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A566293 MW

Parameter
INITIAL WEIGHT OR VOLUME
FINAL WEIGHT OR VOLUMEResult
50
50

Det. Limit

Units
mL
mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M101.3.0

ALUMINUM

Parameter

Result

0.40

Det. Limit

0.050

Units
mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M102.3.0

ANTIMONY

Parameter

Result

BDL

Det. Limit

0.010

Units
mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M104.3.0

BARIUM

Parameter

Result

0.023

Det. Limit

0.010

Units
mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M105.3.0

BERYLLIUM

Parameter

Result

BDL

Det. Limit

0.0040

Units
mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M108.3.0

CADMIUM

Parameter

Result

BDL

Det. Limit

0.0050

Units
mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M109.3.0

CALCIUM

Parameter

Result

100

Det. Limit

0.10

Units
mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M110.3.0

CHROMIUM

Parameter

Result

0.032

Det. Limit

0.010

Units
mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:54

Instrument: ICP

NELAC:Y

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M111.3.0

COBALT

Parameter

Result

BDL

Det. Limit

0.010

Units
mg/L

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COPPER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M112.3.0
Parameter	Result	Det. Limit	Units	
COPPER	BDL	0.020	mg/L	

IRON ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M115.3.0
Parameter	Result	Det. Limit	Units	
IRON	1.4	0.025	mg/L	

MAGNESIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M118.3.0
Parameter	Result	Det. Limit	Units	
MAGNESIUM	37.	0.10	mg/L	

MANGANESE ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M119.3.0
Parameter	Result	Det. Limit	Units	
MANGANESE	0.089	0.010	mg/L	

NICKEL ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M122.3.0
Parameter	Result	Det. Limit	Units	
NICKEL	0.040	0.010	mg/L	

POTASSIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M126.3.0
Parameter	Result	Det. Limit	Units	
POTASSIUM	2.9	0.10	mg/L	

SILVER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M130.3.0
Parameter	Result	Det. Limit	Units	
SILVER	BDL	0.010	mg/L	

SODIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M131.3.0
Parameter	Result	Det. Limit	Units	
SODIUM	34.	0.10	mg/L	

VANADIUM ICP SW846-6010B				NELAC:N
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:54		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M138.3.0
Parameter	Result	Det. Limit	Units	

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:54	Instrument: ICP	Test: M139.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ZINC	0.022	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:48	Instrument: TRACE ICP	Test: M103.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:48	Instrument: TRACE ICP	Test: M116.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:48	Instrument: TRACE ICP	Test: M128.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y			
Analyst: D. DRABENSTOTT	Analysis Date: 19-SEP-01 16:48	Instrument: TRACE ICP	Test: M134.0.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A			
Analyst: J. O'BRYAN	Analysis Date: 17-SEP-01 12:30	Instrument: PREP	Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y			
Analyst: J. O'BRYAN	Analysis Date: 18-SEP-01 12:39	Instrument: CVAA	Test: M120.1.0
Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0			

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A			
Analyst: T. DRIGGERS	Analysis Date: 23-SEP-01 13:00	Instrument: PREP	Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012 NELAC:Y			
Analyst: B. FOX	Analysis Date: 24-SEP-01 08:45	Instrument: AUTO-ANALYZER	Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0			

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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Arizona License Number AZ0627.

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 13-SEP-01	Project	Lab ID A566292
	Complete 25-SEP-01	PO Number DP 00151	
	Printed 25-SEP-01	Sampled 13-SEP-01 17:25	

Report To DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	Bill To ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201
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Sample Description CLIENT ID: MW-B27 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: MW-B27 Submitter Code :4217
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VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS		Analysis Date: 19-SEP-01 10:54		Instrument: GC/MS VOA
				Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
...			
SURROGATE RECOVERY			
DICHLOROETHANE-D4	120		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	102		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: V. BROWN

Analysis Date: 18-SEP-01

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	970		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

NELAC:Y

Analyst: L. CALLAHAN

Analysis Date: 21-SEP-01 21:31

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	51	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	51	ug/L
3-NITROANILINE	BDL	51	ug/L
4-NITROANILINE	BDL	51	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	51	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	51	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	51	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	51	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	51	ug/L
2,4-DINITROPHENOL	BDL	51	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	51	ug/L
PENTACHLOROPHENOL	BDL	51	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	51	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	52		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	34		% Rec
NITROBENZENE-D5	91		% Rec
2-FLUOROBIPHENYL	76		% Rec
2,4,6-TRIBROMOPHENOL	78		% Rec
TERPHENYL-D14	57		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	980		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

NELAC:Y

Analyst: T. PINCKERT

Analysis Date: 21-SEP-01 02:41

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	120.6		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

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HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A566292 MW-B27

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M101.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	0.065	0.050	mg/L

ANTIMONY ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M102.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.012	0.010	mg/L

BERYLLIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M105.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	110	0.10	mg/L

CHROMIUM ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	0.014	0.010	mg/L

COBALT ICP SW846-6010B

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

NELAC:Y
Test: M111.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

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COPPER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M112.3.0
Parameter	Result	Det. Limit	Units	
COPPER	BDL	0.020	mg/L	

IRON ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M115.3.0
Parameter	Result	Det. Limit	Units	
IRON	2.2	0.025	mg/L	

MAGNESIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M118.3.0
Parameter	Result	Det. Limit	Units	
MAGNESIUM	38.	0.10	mg/L	

MANGANESE ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M119.3.0
Parameter	Result	Det. Limit	Units	
MANGANESE	0.25	0.010	mg/L	

NICKEL ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M122.3.0
Parameter	Result	Det. Limit	Units	
NICKEL	0.015	0.010	mg/L	

POTASSIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M126.3.0
Parameter	Result	Det. Limit	Units	
POTASSIUM	2.8	0.10	mg/L	

SILVER ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M130.3.0
Parameter	Result	Det. Limit	Units	
SILVER	BDL	0.010	mg/L	

SODIUM ICP SW846-6010B				NELAC:Y
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M131.3.0
Parameter	Result	Det. Limit	Units	
SODIUM	40.	0.10	mg/L	

VANADIUM ICP SW846-6010B				NELAC:N
Analyst: J. KRAMER		Analysis Date: 19-SEP-01 02:51		Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0				Test: M138.3.0
Parameter	Result	Det. Limit	Units	

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:51

Instrument: ICP

Test: M139.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:43

Instrument: TRACE ICP

Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:43

Instrument: TRACE ICP

Test: M116.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:43

Instrument: TRACE ICP

Test: M128.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT

Analysis Date: 19-SEP-01 16:43

Instrument: TRACE ICP

Test: M134.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: J. O'BRYAN

Analysis Date: 17-SEP-01 12:30

Instrument: PREP

Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A

NELAC:Y

Analyst: J. O'BRYAN

Analysis Date: 18-SEP-01 12:39

Instrument: CVAA

Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: T. DRIGGERS

Analysis Date: 23-SEP-01 13:00

Instrument: PREP

Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

NELAC:Y

Analyst: B. FOX

Analysis Date: 24-SEP-01 08:45

Instrument: AUTO-ANALYZER

Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

The sample results relate only to the analytes of interest tested or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.

Arizona License Number AZ0627.

P.K. Spence

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	13-SEP-01		A566289
	Complete	PO Number	
	25-SEP-01	DP 00151	
	Printed	Sampled	
	25-SEP-01	13-SEP-01 12:00	

Report To	Bill To
DAN SAMMONS, MFWTP IND. WASTE LABORATORY LOUISVILLE AND JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201	ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description
CLIENT ID: FB@MW-0527 MATRIX TYPE: NON-SPECIFIC WATER WELL NUMBER: FB@MW-0527 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B				NELAC:N
Analyst: H. WILLIAMS		Analysis Date: 19-SEP-01 09:07		Instrument: GC/MS VOA
				Test: 0510.3.0
Parameter	Result	Det. Limit	Units	
ACETONE	BDL	20	ug/L	
ACROLEIN	BDL	50	ug/L	
ACRYLONITRILE	BDL	70	ug/L	
BENZENE	BDL	5.0	ug/L	
BROMODICHLOROMETHANE	BDL	5.0	ug/L	
BROMOFORM	BDL	5.0	ug/L	
BROMOMETHANE	BDL	10	ug/L	
CARBON DISULFIDE	BDL	5.0	ug/L	
CARBON TETRACHLORIDE	BDL	5.0	ug/L	
CHLOROBENZENE	BDL	5.0	ug/L	
CHLOROETHANE	BDL	10	ug/L	
CHLOROFORM	BDL	5.0	ug/L	
CHLOROMETHANE	BDL	10	ug/L	
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L	
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L	
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHANE	BDL	5.0	ug/L	
1,2-DICHLOROETHANE	BDL	5.0	ug/L	
1,1-DICHLOROETHENE	BDL	5.0	ug/L	
1,2-DICHLOROPROPANE	BDL	5.0	ug/L	
ETHYLBENZENE	BDL	5.0	ug/L	
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L	
2-HEXANONE	BDL	10	ug/L	
METHYLENE CHLORIDE	BDL	5.0	ug/L	
METHYL ETHYL KETONE	BDL	10	ug/L	
4-METHYL-2-PENTANONE	BDL	10	ug/L	
STYRENE	BDL	5.0	ug/L	
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L	

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	113		% Rec
TOLUENE-D8	112		% Rec
BROMOFLUOROBENZENE	103		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: V. BROWN

Analysis Date: 18-SEP-01

Instrument: PREP

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C

NELAC:Y

Analyst: L. CALLAHAN

Analysis Date: 21-SEP-01 19:30

Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYL BUTYL PHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	52		% Rec

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Parameter	Result	Det. Limit	Units
PHENOL-D5	35		% Rec
NITROBENZENE-D5	91		% Rec
2-FLUOROBIPHENYL	75		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	47		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: S. BRYAN

Analysis Date: 17-SEP-01

Instrument: PREP

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	980		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081

Analyst: T. PINCKERT

Analysis Date: 21-SEP-01 00:50

Instrument: GC/ECD

Test: 0305.1.0

NELAC:Y

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	1	ug/L
PCB AROCLOR 1260	BDL	1	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	114.0		% Rec

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: M. HALL

Analysis Date: 18-SEP-01 10:00

Instrument: PREP

Test: P130.4.0

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Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M101.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M102.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M104.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
BARIUM	BDL	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M105.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M108.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M109.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CALCIUM	0.13	0.10	mg/L

CHROMIUM ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y			
Analyst: J. KRAMER	Analysis Date: 19-SEP-01 02:41	Instrument: ICP	Test: M111.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0			

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

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COPPER ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M112.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.020	mg/L

IRON ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M115.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

MAGNESIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M118.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	BDL	0.10	mg/L

MANGANESE ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M119.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	BDL	0.010	mg/L

NICKEL ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M122.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.010	mg/L

POTASSIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M126.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	BDL	0.10	mg/L

SILVER ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M131.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	BDL	0.10	mg/L

VANADIUM ICP SW846-6010B

NELAC:N

Analyst: J. KRAMER

Analysis Date: 19-SEP-01 02:41

Instrument: ICP

Test: M138.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units

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Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:41 Instrument: ICP Test: M139.3.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT Analysis Date: 19-SEP-01 16:30 Instrument: TRACE ICP Test: M103.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT Analysis Date: 19-SEP-01 16:30 Instrument: TRACE ICP Test: M116.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

SELENIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT Analysis Date: 19-SEP-01 16:30 Instrument: TRACE ICP Test: M128.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B

NELAC:Y

Analyst: D. DRABENSTOTT Analysis Date: 19-SEP-01 16:30 Instrument: TRACE ICP Test: M134.0.0
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Analyst: J. O'BRYAN Analysis Date: 17-SEP-01 12:30 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A

NELAC:Y

Analyst: J. O'BRYAN Analysis Date: 18-SEP-01 12:39 Instrument: CVAA Test: M120.1.0
 Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

CYANIDE DISTILLATION SW846-9010A

Analyst: T. DRIGGERS Analysis Date: 23-SEP-01 13:00 Instrument: PREP Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	250		mL
FINAL VOLUME	250		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012

NELAC:Y

Analyst: B. FOX Analysis Date: 24-SEP-01 08:45 Instrument: AUTO-ANALYZER Test: G101.4.0
 Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

Parameter	Result	Det. Limit	Units
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Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C.

All aqueous samples are reported on a wet weight basis unless otherwise noted.

Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

The sample results relate only to the analytes of interest tested or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.

Arizona License Number AZ0627.

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QUALITY ASSURANCE REPORT

Service Location
 HERITAGE ENVIRONMENTAL SERVICES, LLC
 COMMERCIAL LABORATORY OPERATIONS
 7901 W. MORRIS ST.
 INDIANAPOLIS, IN 46231
 (317)243-8304

Report Date
 28-SEP-01

Submitter
 LOUISVILLE AND JEFFERSON COUNTY M.S.D.
 KEN CONNER - MSD URBAN AREAS
 400 SOUTH SIXTH STREET (40202-2397)
 P.O. BOX 740011
 LOUISVILLE, KY 40201

Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
MW-0427	A566287	13-SEP-01 10:50	13-SEP-01	25-SEP-01	WELL NUMBER: MW-0427
DUPaMW-0427	A566288	13-SEP-01 10:50	13-SEP-01	25-SEP-01	WELL NUMBER: DUPaMW-0427
FBaMW-0527	A566289	13-SEP-01 12:00	13-SEP-01	25-SEP-01	WELL NUMBER: FBaMW-0527
MW-0527	A566290	13-SEP-01 13:25	13-SEP-01	26-SEP-01	WELL NUMBER: MW-0527
MW-0227	A566291	13-SEP-01 15:45	13-SEP-01	25-SEP-01	WELL NUMBER: MW-0227
MW-B27	A566292	13-SEP-01 17:25	13-SEP-01	25-SEP-01	WELL NUMBER: MW-B27
MW-A27	A566293	13-SEP-01 18:50	13-SEP-01	25-SEP-01	WELL NUMBER: MW-A27



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HERITAGE ENVIRONMENTAL SERVICES, LLC

CYANIDE, TOTAL (AUTOMATED) SW846-9012
 Prep: CYANIDE DISTILLATION SW846-9010A

G101.4

Run: R420063 Analyst.: T DRIGGERS Run Date...: 23-SEP-01
 PREP Reviewer: B SHRAKE Review Date: 24-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1283845		R420067
LFB02L	Q1283846		R420067
LFB02H	Q1283847		R420067
SAMPLE	A566287	Rep: 0	R420067
SAMPLE	A566288	Rep: 0	R420067
SAMPLE	A566291	Rep: 0	R420067
SPI02	Q1283848	A566291	R420067
DPS02	Q1283849	A566291	R420067
SAMPLE	A566289	Rep: 0	R420067
SAMPLE	A566290	Rep: 0	R420067
SAMPLE	A566292	Rep: 0	R420067
SAMPLE	A566293	Rep: 0	R420067
DUP02	Q1283850	A566293	R420067

Run: R420067 Analyst.: B FOX Run Date...: 24-SEP-01 Instrument: AUTO-ANALYZER
 ANALYTICAL Reviewer: B SHRAKE Review Date: 24-SEP-01

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1283885		CYANIDE			BDL 0.005	mg/L		
CDL01	Q1283886		CYANIDE	0.02		0.0248	mg/L	124	
ICV01	Q1283887		CYANIDE	0.15		0.146	mg/L	97.3	
BLA02	Q1283845		CYANIDE			BDL 0.005	mg/L		
LFB02L	Q1283846		CYANIDE	0.05		0.0503	mg/L	100.6	
LFB02H	Q1283847		CYANIDE	0.25		0.262	mg/L	104.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SPI02	Q1283848	A566291	CYANIDE	0	0.1	0.105	mg/L	105	
CCV	Q1283888		CYANIDE	0.1		0.103	mg/L	103	
BLA01	Q1283889		CYANIDE			BDL 0.005	mg/L		
DPS02	Q1283849	A566291	CYANIDE	0	0.1	0.105	mg/L	105	0
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
DUP02	Q1283850	A566293	CYANIDE	0		BDL	mg/L		
CCV	Q1283890		CYANIDE	0.1		0.102	mg/L	102	
BLA01	Q1283891		CYANIDE			BDL 0.005	mg/L		

ALUMINUM ICP SW846-6010B
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

M101.3

Run: R419695 Analyst.: M HALL Run Date...: 18-SEP-01
 PREP Reviewer: W WATNESS Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777

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QC Type	Lab ID	Source	Anal Run						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 Analyst.: J KRAMER Run Date...: 18-SEP-01 Instrument: ICP ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01									
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	ALUMINUM	1		1.04	mg/L	104	
CDL01	Q1281988	INORGAN	ALUMINUM	10		9.93	mg/L	99.3	
ICS-A	Q1281990	PERKIN	ALUMINUM	500		530.	mg/L	106	
CCV	Q1281993	INORGAN	ALUMINUM	5.00		5.15	mg/L	103	
BLA01	Q1281994	NA	ALUMINUM			< 0.0200	mg/L		
BLA02	Q1281516	NA	ALUMINUM			< 0.0200	mg/L		
LCS	Q1281517	SPEX	ALUMINUM	20.0		21.4	mg/L	107	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	ALUMINUM	0	2.00	2.26	mg/L	113	
DPS02	Q1281519	A566287	ALUMINUM	0	2.00	2.23	mg/L	111.5	1.3
CCV	Q1281995	INORGAN	ALUMINUM	5.00		5.18	mg/L	103.6	
BLA01	Q1281996	NA	ALUMINUM			< 0.0200	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	ALUMINUM	5.00		5.22	mg/L	104.4	
BLA01	Q1281998	NA	ALUMINUM			< 0.0200	mg/L		
ICS-A	Q1282022	PERKIN-	ALUMINUM	500		533.	mg/L	106.6	

ANTIMONY ICP SW846-6010B

M102.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 Analyst.: M HALL Run Date...: 18-SEP-01 PREP Reviewer: W WATNESS Review Date: 19-SEP-01									
QC Type	Lab ID	Source	Anal Run						
BLA02	Q1281516	NA	R419777						
LCS	Q1281517	SPEX	R419777						
SPI02	Q1281518	A566287	R419777						
DPS02	Q1281519	A566287	R419777						
SAMPLE	A566287	Rep: 0	R419777						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 Analyst.: J KRAMER Run Date...: 18-SEP-01 Instrument: ICP ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01									
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	ANTIMONY	1		1.02	mg/L	102	
CDL01	Q1281987	PERKIN	ANTIMONY	0.120		0.120	mg/L	100	

LABORATORY SERVICES
TERMS & CONDITIONS

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3. Taxes- Prices do not include taxes. It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
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5. Samples- Samples delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
6. Sample Retention- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
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11. Cancellation- If the Client cancels its order after the sample has been prepped and analyzed, the full fee in the quotation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the laboratory.
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 - a. Heritage performed analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Client, or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q1281990	PERKIN	ANTIMONY	0.6		0.642	mg/L	107	
CCV	Q1281993	INORGAN	ANTIMONY	1		1.04	mg/L	104	
BLA01	Q1281994	NA	ANTIMONY			< 0.00400	mg/L		
BLA02	Q1281516	NA	ANTIMONY			< 0.00400	mg/L		
LCS	Q1281517	SPEX	ANTIMONY	5.00		5.54	mg/L	110.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	ANTIMONY	0	0.500	0.563	mg/L	112.6	
DPS02	Q1281519	A566287	ANTIMONY	0	0.500	0.561	mg/L	112.2	.4
CCV	Q1281995	INORGAN	ANTIMONY	1		1.05	mg/L	105	
BLA01	Q1281996	NA	ANTIMONY			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	ANTIMONY	1		1.05	mg/L	105	
BLA01	Q1281998	NA	ANTIMONY			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	ANTIMONY	0.120		0.121	mg/L	100.8	
ICS-A	Q1282023	PERKIN	ANTIMONY	0.6		0.639	mg/L	106.5	

ARSENIC TRACE ICP SW846-6010B

M103.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREP

Analyst.: M HALL
Reviewer: W WATNESS

Run Date....: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A566287	Rep: 0	R419807
SAMPLE	A566288	Rep: 0	R419807
SAMPLE	A566289	Rep: 0	R419807
SAMPLE	A566290	Rep: 0	R419807
SAMPLE	A566291	Rep: 0	R419807
SAMPLE	A566292	Rep: 0	R419807
SAMPLE	A566293	Rep: 0	R419807
BLA02	Q1281520	NA	R419807
LCS	Q1281521	INORGAN	R419807
SPI02	Q1281522	A566287	R419807
DPS02	Q1281523	A566287	R419807

Run: R419807
ANALYTICAL

Analyst.: D DRABENSTOTT
Reviewer: S ENDERSON

Run Date....: 19-SEP-01
Review Date: 20-SEP-01

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1282202	PERKIN	ARSENIC	0.05		0.0464	mg/L	92.8	
CDL01	Q1282207	INORGAN	ARSENIC	0.5		0.502	mg/L	100.4	
ICS-A	Q1282209	PERKIN	ARSENIC	0.1		0.102	mg/L	102	
CCV	Q1282214	INORGAN	ARSENIC	0.1		0.102	mg/L	102	
BLA01	Q1282215	NA	ARSENIC			< 0.00200	mg/L		
BLA02	Q1281520	NA	ARSENIC			< 0.00200	mg/L		
LCS	Q1281521	INORGAN	ARSENIC	0.5		0.557	mg/L	111.4	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281522	A566287	ARSENIC	0.0112	2	2.15	mg/L	106.9	
DPS02	Q1281523	A566287	ARSENIC	0.0112	2	2.20	mg/L	109.4	2.3
CCV	Q1282216	INORGAN	ARSENIC	0.1		0.101	mg/L	101	
BLA01	Q1282217	NA	ARSENIC			< 0.00200	mg/L		

LABORATORY SERVICES
TERMS & CONDITIONS

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6. Sample Retention- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
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 - a. of Heritage performed analysis or work for the Client;
 - b. of negligent acts, errors, or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1282218	INORGAN	ARSENIC	0.1		0.102	mg/L	102	
BLA01	Q1282219	NA	ARSENIC			< 0.00200	mg/L		
CDL01	Q1282222	PERKIN	ARSENIC	0.02		0.0211	mg/L	105.5	
ICS-A	Q1282224	PERKIN	ARSENIC	0.1		0.102	mg/L	102	

BARIUM ICP SW846-6010B

M104.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 Analyst.: M HALL Run Date...: 18-SEP-01
PREP Reviewer: W WATNESS Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777 Analyst.: J KRAMER Run Date...: 18-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	BARIUM	1		1.07	mg/L	107	
CDL01	Q1281988	INORGAN	BARIUM	10		9.99	mg/L	99.9	
ICS-A	Q1281990	PERKIN	BARIUM	0.500		0.509	mg/L	101.8	
CCV	Q1281993	INORGAN	BARIUM	5.00		5.06	mg/L	101.2	
BLA01	Q1281994	NA	BARIUM			< 0.00400	mg/L		
BLA02	Q1281516	NA	BARIUM			< 0.00400	mg/L		
LCS	Q1281517	SPEX	BARIUM	20.0		19.8	mg/L	99	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	BARIUM	0.121	2.00	2.20	mg/L	104	
DPS02	Q1281519	A566287	BARIUM	0.121	2.00	2.22	mg/L	105	1
CCV	Q1281995	INORGAN	BARIUM	5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	BARIUM			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	BARIUM	5.00		5.04	mg/L	100.8	
BLA01	Q1281998	NA	BARIUM			< 0.00400	mg/L		
ICS-A	Q1282023	PERKIN	BARIUM	0.500		0.500	mg/L	100	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

BERYLLIUM ICP SW846-6010B

M105.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	BERYLLIUM	1		1.03	mg/L	103	
CDL01	Q1281988	INORGAN	BERYLLIUM	10		9.88	mg/L	98.8	
ICS-A	Q1281990	PERKIN	BERYLLIUM	0.500		0.531	mg/L	106.2	
CCV	Q1281993	INORGAN	BERYLLIUM	5.00		5.29	mg/L	105.8	
BLA01	Q1281994	NA	BERYLLIUM			< 0.00160	mg/L		
BLA02	Q1281516	NA	BERYLLIUM			< 0.00160	mg/L		
LCS	Q1281517	SPEX	BERYLLIUM	0.500		0.547	mg/L	109.4	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	BERYLLIUM	0	0.050	0.0544	mg/L	108.8	
DPS02	Q1281519	A566287	BERYLLIUM	0	0.050	0.0544	mg/L	108.8	0
CCV	Q1281995	INORGAN	BERYLLIUM	5.00		5.32	mg/L	106.4	
BLA01	Q1281996	NA	BERYLLIUM			< 0.00160	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	BERYLLIUM	5.00		5.27	mg/L	105.4	
BLA01	Q1281998	NA	BERYLLIUM			< 0.00160	mg/L		
CDL01	Q1282021	PERKIN	BERYLLIUM	0.010		0.0103	mg/L	103	
ICS-A	Q1282023	PERKIN	BERYLLIUM	0.500		0.520	mg/L	104	

CADMIUM ICP SW846-6010B

M108.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 18-SEP-01 Review Date: 19-SEP-01		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	CADMIUM	1		1.02	mg/L	102	
CDL01	Q1281988	INORGAN	CADMIUM	10		9.95	mg/L	99.5	
ICS-A	Q1281990	PERKIN	CADMIUM	1.00		1.07	mg/L	107	
CCV	Q1281993	INORGAN	CADMIUM	5.00		5.17	mg/L	103.4	
BLA01	Q1281994	NA	CADMIUM			< 0.00200	mg/L		
BLA02	Q1281516	NA	CADMIUM			< 0.00200	mg/L		
LCS	Q1281517	SPEX	CADMIUM	0.500		0.532	mg/L	106.4	
SAMPLE	A566287	See Cert. of Analysis, Rep: 0							
SPI02	Q1281518	A566287	CADMIUM	0	0.050	0.0534	mg/L	106.8	
DPS02	Q1281519	A566287	CADMIUM	0	0.050	0.0535	mg/L	107	.2
CCV	Q1281995	INORGAN	CADMIUM	5.00		5.16	mg/L	103.2	
BLA01	Q1281996	NA	CADMIUM			< 0.00200	mg/L		
SAMPLE	A566288	See Cert. of Analysis, Rep: 0							
SAMPLE	A566289	See Cert. of Analysis, Rep: 0							
SAMPLE	A566290	See Cert. of Analysis, Rep: 0							
SAMPLE	A566291	See Cert. of Analysis, Rep: 0							
SAMPLE	A566292	See Cert. of Analysis, Rep: 0							
SAMPLE	A566293	See Cert. of Analysis, Rep: 0							
CCV	Q1281997	INORGAN	CADMIUM	5.00		5.15	mg/L	103	
BLA01	Q1281998	NA	CADMIUM			< 0.00200	mg/L		
CDL01	Q1282021	PERKIN	CADMIUM	0.010		0.0101	mg/L	101	
ICS-A	Q1282023	PERKIN	CADMIUM	1.00		1.05	mg/L	105	

CALCIUM ICP SW846-6010B

M109.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 PREP		Analyst.: M HALL Reviewer: W WATNESS		Run Date...: 18-SEP-01 Review Date: 19-SEP-01					
QC Type	Lab ID	Source	Anal Run						
BLA02	Q1281516	NA	R419777						
LCS	Q1281517	SPEX	R419777						
SPI02	Q1281518	A566287	R419777						
DPS02	Q1281519	A566287	R419777						
SAMPLE	A566287	Rep: 0	R419777						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 ANALYTICAL		Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 18-SEP-01 Review Date: 19-SEP-01		Instrument: ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281985	SPEX	CALCIUM	20		19.9	mg/L	99.5	

LABORATORY SERVICES TERMS & CONDITIONS

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 - a. Heritage performed analysis or work for the Client;
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q1281990	PERKIN	CALCIUM	500		483.	mg/L	96.6	
CCV	Q1281993	INORGAN	CALCIUM	50.0		49.7	mg/L	99.4	
BLA01	Q1281994	NA	CALCIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA	CALCIUM			< 0.0400	mg/L		
LCS	Q1281517	SPEX	CALCIUM	100		102.	mg/L	102	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	CALCIUM	115.	100	216.	mg/L	101	
DPS02	Q1281519	A566287	CALCIUM	115.	100	215.	mg/L	100	1
CCV	Q1281995	INORGAN	CALCIUM	50.0		49.4	mg/L	98.8	
BLA01	Q1281996	NA	CALCIUM			< 0.0400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	CALCIUM	50.0		49.1	mg/L	98.2	
BLA01	Q1281998	NA	CALCIUM			< 0.0400	mg/L		
ICS-A	Q1282022	PERKIN-	CALCIUM	500		478.	mg/L	95.6	

CHROMIUM ICP SW846-6010B

M110.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREP

Analyst.: M HALL
Reviewer: W WATNESS

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	CHROMIUM	1		1.02	mg/L	102	
CDL01	Q1281988	INORGAN	CHROMIUM	10		9.90	mg/L	99	
ICS-A	Q1281990	PERKIN	CHROMIUM	0.500		0.484	mg/L	96.8	
CCV	Q1281993	INORGAN	CHROMIUM	5.00		4.98	mg/L	99.6	
BLA01	Q1281994	NA	CHROMIUM			< 0.00400	mg/L		
BLA02	Q1281516	NA	CHROMIUM			< 0.00400	mg/L		
LCS	Q1281517	SPEX	CHROMIUM	2.00		2.02	mg/L	101	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	CHROMIUM	0	0.200	0.205	mg/L	102.5	
DPS02	Q1281519	A566287	CHROMIUM	0	0.200	0.205	mg/L	102.5	0
CCV	Q1281995	INORGAN	CHROMIUM	5.00		4.97	mg/L	99.4	
BLA01	Q1281996	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						

HERITAGE LABORATORY SERVICES TERMS & CONDITIONS

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 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	CHROMIUM	5.00		4.96	mg/L	99.2	
BLA01	Q1281998	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	CHROMIUM	0.020		0.0202	mg/L	101	
ICS-A	Q1282023	PERKIN	CHROMIUM	0.500		0.470	mg/L	94	

COBALT ICP SW846-6010B

M111.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREP

Analyst.: M HALL
Reviewer: W WATNESS

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	COBALT	1		1.04	mg/L	104	
CDL01	Q1281988	INORGAN	COBALT	10		10.0	mg/L	100	
ICS-A	Q1281990	PERKIN	COBALT	0.500		0.483	mg/L	96.6	
CCV	Q1281993	INORGAN	COBALT	5.00		5.04	mg/L	100.8	
BLA01	Q1281994	NA	COBALT			< 0.00400	mg/L		
BLA02	Q1281516	NA	COBALT			< 0.00400	mg/L		
LCS	Q1281517	SPEX	COBALT	5.00		5.14	mg/L	102.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	COBALT	0	0.500	0.512	mg/L	102.4	
DPS02	Q1281519	A566287	COBALT	0	0.500	0.515	mg/L	103	.6
CCV	Q1281995	INORGAN	COBALT	5.00		5.03	mg/L	100.6	
BLA01	Q1281996	NA	COBALT			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	COBALT	5.00		5.02	mg/L	100.4	
BLA01	Q1281998	NA	COBALT			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	COBALT	0.100		0.104	mg/L	104	
ICS-A	Q1282023	PERKIN	COBALT	0.500		0.474	mg/L	94.8	

TERMS & CONDITIONS

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HERITAGE ENVIRONMENTAL SERVICES, LLC

COPPER ICP SW846-6010B

M112.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SP102	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	COPPER	1		1.01	mg/L	101	
CDL01	Q1281988	INORGAN	COPPER	10		9.90	mg/L	99	
ICS-A	Q1281990	PERKIN	COPPER	0.500		0.544	mg/L	108.8	
CCV	Q1281993	INORGAN	COPPER	5.00		5.06	mg/L	101.2	
BLA01	Q1281994	NA	COPPER			< 0.00800	mg/L		
BLA02	Q1281516	NA	COPPER			< 0.00800	mg/L		
LCS	Q1281517	SPEX	COPPER	2.50		2.58	mg/L	103.2	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SP102	Q1281518	A566287	COPPER	0	0.250	0.268	mg/L	107.2	
DPS02	Q1281519	A566287	COPPER	0	0.250	0.265	mg/L	106	1.1
CCV	Q1281995	INORGAN	COPPER	5.00		5.08	mg/L	101.6	
BLA01	Q1281996	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	COPPER	5.00		5.11	mg/L	102.2	
BLA01	Q1281998	NA	COPPER			< 0.00800	mg/L		
CDL01	Q1282021	PERKIN	COPPER	0.050		0.0508	mg/L	101.6	
ICS-A	Q1282023	PERKIN	COPPER	0.500		0.548	mg/L	109.6	

IRON ICP SW846-6010B

M115.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SP102	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	IRON	1		1.03	mg/L	103	
CDL01	Q1281988	INORGAN	IRON	10		9.99	mg/L	99.9	
ICS-A	Q1281990	PERKIN	IRON	200		188.	mg/L	94	
CCV	Q1281993	INORGAN	IRON	5.00		5.06	mg/L	101.2	
BLA01	Q1281994	NA	IRON			< 0.0100	mg/L		
BLA02	Q1281516	NA	IRON			< 0.0100	mg/L		
LCS	Q1281517	SPEX	IRON	10.0		10.1	mg/L	101	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	IRON	6.23	1.00	7.08	mg/L	85	
DPS02	Q1281519	A566287	IRON	6.23	1.00	7.04	mg/L	81	4.8
CCV	Q1281995	INORGAN	IRON	5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	IRON			< 0.0100	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	IRON	5.00		5.04	mg/L	100.8	
BLA01	Q1281998	NA	IRON			< 0.0100	mg/L		
ICS-A	Q1282022	PERKIN-	IRON	200		189.	mg/L	94.5	

LEAD TRACE ICP SW846-6010B

M116.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREP

Analyst.: M HALL
Reviewer: W WATNESS

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A566287	Rep: 0	R419907
SAMPLE	A566288	Rep: 0	R419807
SAMPLE	A566289	Rep: 0	R419807
SAMPLE	A566290	Rep: 0	R419907
SAMPLE	A566291	Rep: 0	R419807
SAMPLE	A566292	Rep: 0	R419807
SAMPLE	A566293	Rep: 0	R419807
BLA02	Q1281520	NA	R419807
LCS	Q1281521	INORGAN	R419807
SPI02	Q1281522	A566287	R419807
DPS02	Q1281523	A566287	R419807

Run: R419807
ANALYTICAL

Analyst.: D DRABENSTOTT
Reviewer: S ENDERSON

Run Date...: 19-SEP-01
Review Date: 20-SEP-01

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1282202	PERKIN-	LEAD	0.05		0.0503	mg/L	100.6	
CDL01	Q1282207	INORGAN	LEAD	0.5		0.504	mg/L	100.8	

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 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q1282209	PERKIN	LEAD	0.05		0.0430	mg/L	86	
BLA02	Q1281520	NA	LEAD			< 0.00200	mg/L		
LCS	Q1281521	INORGAN	LEAD	0.5		0.572	mg/L	114.4	
SPI02	Q1281522	A566287	LEAD	0.00649	0.5	0.536	mg/L	105.9	
DPS02	Q1281523	A566287	LEAD	0.00649	0.5	0.549	mg/L	108.5	2.4
CCV	Q1282216	INORGAN	LEAD	0.1		0.109	mg/L	109	
BLA01	Q1282217	NA	LEAD			< 0.00200	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1282218	INORGAN	LEAD	0.1		0.113	mg/L	113	
BLA01	Q1282219	NA	LEAD			< 0.00200	mg/L		
CDL01	Q1282222	PERKIN-	LEAD	0.006		0.00677	mg/L	112.8	
ICS-A	Q1282224	PERKIN	LEAD	0.05		0.0460	mg/L	92	

Run: R419907
ANALYTICAL

Analyst.: D DRABENSTOTT
Reviewer: S ENDERSON

Run Date...: 20-SEP-01
Review Date: 21-SEP-01

Instrument: TRACE ICP

ICV01	Q1282829	PERKIN-	LEAD	0.05		0.0519	mg/L	103.8	
CDL01	Q1282834	INORGAN	LEAD	0.5		0.496	mg/L	99.2	
ICS-A	Q1282836	PERKIN	LEAD	0.05		0.0468	mg/L	93.6	
CCV	Q1282841	INORGAN	LEAD	0.1		0.103	mg/L	103	
BLA01	Q1282842	NA	LEAD			< 0.00200	mg/L		
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
CCV	Q1282843	INORGAN	LEAD	0.1		0.102	mg/L	102	
BLA01	Q1282844	NA	LEAD			0.00236	mg/L		
CDL01	Q1282851	PERKIN-	LEAD	0.006		0.00807	mg/L	134.5	
ICS-A	Q1282853	PERKIN	LEAD	0.05		0.0483	mg/L	96.6	

MAGNESIUM ICP SW846-6010B

M118.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREP

Analyst.: M HALL
Reviewer: W WATNESS

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICAL

Analyst.: J KRAMER
Reviewer: S ENDERSON

Run Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281985	SPEX	MAGNESIUM	20		20.0	mg/L	100	
ICS-A	Q1281990	PERKIN	MAGNESIUM	500		491.	mg/L	98.2	
CCV	Q1281993	INORGAN	MAGNESIUM	50.0		50.5	mg/L	101	

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 - a. Heritage performed analysis or work for the Client;
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1281994	NA	MAGNESIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA	MAGNESIUM			< 0.0400	mg/L		
LCS	Q1281517	SPEX	MAGNESIUM	100		103.	mg/L	103	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	MAGNESIUM	39.9	100	147.	mg/L	107.1	
DPS02	Q1281519	A566287	MAGNESIUM	39.9	100	145.	mg/L	105.1	1.9
CCV	Q1281995	INORGAN	MAGNESIUM	50.0		50.6	mg/L	101.2	
BLA01	Q1281996	NA	MAGNESIUM			< 0.0400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	MAGNESIUM	50.0		50.3	mg/L	100.6	
BLA01	Q1281998	NA	MAGNESIUM			< 0.0400	mg/L		
ICS-A	Q1282022	PERKIN-	MAGNESIUM	500		488.	mg/L	97.6	

MANGANESE ICP SW846-6010B

M119.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 Analyst.: M HALL Run Date...: 18-SEP-01
 PREP Reviewer: W WATNESS Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777 Analyst.: J KRAMER Run Date...: 18-SEP-01 Instrument: ICP
 ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	MANGANESE	1		1.02	mg/L	102	
CDL01	Q1281988	INORGAN	MANGANESE	10		10.0	mg/L	100	
ICS-A	Q1281990	PERKIN	MANGANESE	0.500		0.495	mg/L	99	
CCV	Q1281993	INORGAN	MANGANESE	5.00		5.05	mg/L	101	
BLA01	Q1281994	NA	MANGANESE			< 0.00400	mg/L		
BLA02	Q1281516	NA	MANGANESE			< 0.00400	mg/L		
LCS	Q1281517	SPEX	MANGANESE	5.00		5.09	mg/L	101.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	MANGANESE	0.137	0.500	0.646	mg/L	101.8	
DPS02	Q1281519	A566287	MANGANESE	0.137	0.500	0.650	mg/L	102.6	.8
CCV	Q1281995	INORGAN	MANGANESE	5.00		5.04	mg/L	100.8	
BLA01	Q1281996	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						

HERITAGE LABORATORY SERVICES TERMS & CONDITIONS

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	MANGANESE	5.00		5.00	mg/L	100	
BLA01	Q1281998	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	MANGANESE	0.030		0.0310	mg/L	103.3	
ICS-A	Q1282023	PERKIN	MANGANESE	0.500		0.480	mg/L	96	

MERCURY CVAA SW846-7470A

M120.1

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

Run: R419655
PREPAnalyst.: J O'BRYAN
Reviewer: S O'NEALRun Date...: 17-SEP-01
Review Date: 18-SEP-01

QC Type	Lab ID	Source	Anal Run
LCS	Q1281140		R419724
BLA02	Q1281141		R419724
SPI02	Q1281142	A566287	R419724
DPS02	Q1281143	A566287	R419724
SAMPLE	A566287	Rep: 0	R419724
SAMPLE	A566288	Rep: 0	R419724
SAMPLE	A566289	Rep: 0	R419724
SAMPLE	A566290	Rep: 0	R419724
SAMPLE	A566291	Rep: 0	R419724
SAMPLE	A566292	Rep: 0	R419724
SAMPLE	A566293	Rep: 0	R419724

Run: R419724
ANALYTICALAnalyst.: J O'BRYAN
Reviewer: S O'NEALRun Date...: 18-SEP-01
Review Date: 18-SEP-01

Instrument: CVAA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281602		MERCURY	0.002		0.00184	mg/L	92	
CDL01	Q1281606		MERCURY	0.0002		0.00022	mg/L	110	
CCV	Q1281611		MERCURY	0.003		0.00303	mg/L	101	
BLA01	Q1281612		MERCURY			< 0.00008	mg/L		
LCS	Q1281140		MERCURY	0.002		0.00194	mg/L	97	
BLA02	Q1281141		MERCURY			< 0.00008	mg/L		
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281142	A566287	MERCURY	0	0.001	0.00101	mg/L	101	
DPS02	Q1281143	A566287	MERCURY	0	0.001	0.00101	mg/L	101	0
CCV	Q1281613		MERCURY	0.003		0.00306	mg/L	102	
BLA01	Q1281614		MERCURY			< 0.00008	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281615		MERCURY	0.003		0.00308	mg/L	102.7	
BLA01	Q1281616		MERCURY			< 0.00008	mg/L		
CDL01	Q1281619		MERCURY	0.0002		0.0002	mg/L	100	

TERMS & CONDITIONS

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HERITAGE ENVIRONMENTAL SERVICES, LLC

NICKEL ICP SW846-6010B

M122.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	NICKEL	1		1.03	mg/L	103	
CDL01	Q1281988	INORGAN	NICKEL	10		9.97	mg/L	99.7	
ICS-A	Q1281990	PERKIN	NICKEL	1.00		0.930	mg/L	93	
CCV	Q1281993	INORGAN	NICKEL	5.00		5.07	mg/L	101.4	
BLA01	Q1281994	NA	NICKEL			< 0.00400	mg/L		
BLA02	Q1281516	NA	NICKEL			< 0.00400	mg/L		
LCS	Q1281517	SPEX	NICKEL	5.00		5.10	mg/L	102	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	NICKEL	0.0111	0.500	0.521	mg/L	102	
DPS02	Q1281519	A566287	NICKEL	0.0111	0.500	0.521	mg/L	102	0
CCV	Q1281995	INORGAN	NICKEL	5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	NICKEL			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	NICKEL	5.00		5.03	mg/L	100.6	
BLA01	Q1281998	NA	NICKEL			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	NICKEL	0.080		0.0831	mg/L	103.9	
ICS-A	Q1282023	PERKIN	NICKEL	1.00		0.908	mg/L	90.8	

POTASSIUM ICP SW846-6010B

M126.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777

TERMS & CONDITIONS

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7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
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 - a. Heritage performed analysis or work for the Client;
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 ANALYTICAL				Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 18-SEP-01 Review Date: 19-SEP-01		Instrument: ICP	
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	POTASSIUM	10		9.80	mg/L	98	
ICV01	Q1281985	SPEX	POTASSIUM	20		20.4	mg/L	102	
CCV	Q1281993	INORGAN	POTASSIUM	50		52.9	mg/L	105.8	
BLA01	Q1281994	NA	POTASSIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA	POTASSIUM			< 0.0400	mg/L		
LCS	Q1281517	SPEX	POTASSIUM	100		106.	mg/L	106	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	POTASSIUM	2.98	100	118.	mg/L	115	
DPS02	Q1281519	A566287	POTASSIUM	2.98	100	115.	mg/L	112	2.6
CCV	Q1281995	INORGAN	POTASSIUM	50		53.4	mg/L	106.8	
BLA01	Q1281996	NA	POTASSIUM			< 0.0400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	POTASSIUM	50		53.4	mg/L	106.8	
BLA01	Q1281998	NA	POTASSIUM			< 0.0400	mg/L		

SELENIUM TRACE ICP SW846-6010B				M128.0					
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A									
Run: R419695 PREP		Analyst.: M HALL Reviewer: W WATNESS		Run Date...: 18-SEP-01 Review Date: 19-SEP-01					
QC Type	Lab ID	Source	Anal Run						
SAMPLE	A566287	Rep: 0	R419807						
SAMPLE	A566288	Rep: 0	R419807						
SAMPLE	A566289	Rep: 0	R419807						
SAMPLE	A566290	Rep: 0	R419807						
SAMPLE	A566291	Rep: 0	R419807						
SAMPLE	A566292	Rep: 0	R419807						
SAMPLE	A566293	Rep: 0	R419807						
BLA02	Q1281520	NA	R419807						
LCS	Q1281521	INORGAN	R419807						
SPI02	Q1281522	A566287	R419807						
DPS02	Q1281523	A566287	R419807						
Run: R419807 ANALYTICAL		Analyst.: D DRABENSTOTT Reviewer: S ENDERSON		Run Date...: 19-SEP-01 Review Date: 20-SEP-01		Instrument: TRACE ICP			
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1282202	PERKIN-	SELENIUM	0.05		0.0496	mg/L	99.2	
CDL01	Q1282207	INORGAN	SELENIUM	0.5		0.506	mg/L	101.2	
ICS-A	Q1282209	PERKIN	SELENIUM	0.05		0.0627	mg/L	125.4	
CCV	Q1282214	INORGAN	SELENIUM	0.1		0.107	mg/L	107	

HERITAGE LABORATORY SERVICES TERMS & CONDITIONS

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6. Sample Retention- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
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 - a. Heritage performed analysis or work for the Client;
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1282215	NA	SELENIUM			< 0.00200	mg/L		
BLA02	Q1281520	NA	SELENIUM			< 0.00200	mg/L		
LCS	Q1281521	INORGAN	SELENIUM	0.5		0.583	mg/L	116.6	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281522	A566287	SELENIUM	0	2	2.25	mg/L	112.5	
DPS02	Q1281523	A566287	SELENIUM	0	2	2.31	mg/L	115.5	2.6
CCV	Q1282216	INORGAN	SELENIUM	0.1		0.105	mg/L	105	
BLA01	Q1282217	NA	SELENIUM			< 0.00200	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1282218	INORGAN	SELENIUM	0.1		0.107	mg/L	107	
BLA01	Q1282219	NA	SELENIUM			< 0.00200	mg/L		
CDL01	Q1282222	PERKIN-	SELENIUM	0.01		0.0134	mg/L	134	
ICS-A	Q1282224	PERKIN	SELENIUM	0.05		0.0668	mg/L	133.6	

SILVER ICP SW846-6010B

M130.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 Analyst.: M HALL Run Date...: 18-SEP-01
PREP Reviewer: W WATNESS Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777 Analyst.: J KRAMER Run Date...: 18-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	SILVER	0.5		0.500	mg/L	100	
CDL01	Q1281988	INORGAN	SILVER	2		1.96	mg/L	98	
ICS-A	Q1281990	PERKIN	SILVER	0.2		0.217	mg/L	108.5	
CCV	Q1281993	INORGAN	SILVER	1.00		0.999	mg/L	99.9	
BLA01	Q1281994	NA	SILVER			< 0.00400	mg/L		
BLA02	Q1281516	NA	SILVER			< 0.00400	mg/L		
LCS	Q1281517	SPEX	SILVER	0.500		0.516	mg/L	103.2	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	SILVER	0	0.050	0.0517	mg/L	103.4	
DPS02	Q1281519	A566287	SILVER	0	0.050	0.0517	mg/L	103.4	0
CCV	Q1281995	INORGAN	SILVER	1.00		1.00	mg/L	100	
BLA01	Q1281996	NA	SILVER			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	SILVER	1.00		1.00	mg/L	100	
BLA01	Q1281998	NA	SILVER			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	SILVER	0.020		0.0188	mg/L	94	
ICS-A	Q1282023	PERKIN	SILVER	0.2		0.215	mg/L	107.5	

SODIUM ICP SW846-6010B

M131.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695 Analyst.: M HALL Run Date....: 18-SEP-01
PREP Reviewer: W WATNESS Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777 Analyst.: J KRAMER Run Date....: 18-SEP-01 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 19-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	SODIUM	1		0.994	mg/L	99.4	
ICV01	Q1281985	SPEX	SODIUM	20		20.6	mg/L	103	
CCV	Q1281993	INORGAN	SODIUM	50		52.9	mg/L	105.8	
BLA01	Q1281994	NA	SODIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA	SODIUM			< 0.0400	mg/L		
LCS	Q1281517	SPEX	SODIUM	100		104.	mg/L	104	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	SODIUM	29.3	100	139.	mg/L	109.7	
DPS02	Q1281519	A566287	SODIUM	29.3	100	136.	mg/L	106.7	2.8
CCV	Q1281995	INORGAN	SODIUM	50		53.4	mg/L	106.8	
BLA01	Q1281996	NA	SODIUM			< 0.0400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	SODIUM	50		53.6	mg/L	107.2	
BLA01	Q1281998	NA	SODIUM			< 0.0400	mg/L		

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7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
8. Sample Reports- Heritage shall provide a written report of the results of its services which will include test results, detection limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample delivery.
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HERITAGE ENVIRONMENTAL SERVICES, LLC

THALLIUM TRACE ICP SW846-6010B

M134.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
SAMPLE	A566287	Rep: 0	R420023
SAMPLE	A566288	Rep: 0	R419807
SAMPLE	A566289	Rep: 0	R419807
SAMPLE	A566290	Rep: 0	R420023
SAMPLE	A566291	Rep: 0	R419807
SAMPLE	A566292	Rep: 0	R419807
SAMPLE	A566293	Rep: 0	R419807
BLA02	Q1281520	NA	R419807
LCS	Q1281521	INORGAN	R419807
SPI02	Q1281522	A566287	R419807
DPS02	Q1281523	A566287	R419807

Run: R419807
ANALYTICALAnalyst.: D DRABENSTOTT
Reviewer: S ENDERSONRun Date...: 19-SEP-01
Review Date: 20-SEP-01

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1282202	PERKIN-	THALLIUM	0.05		0.0508	mg/L	101.6	
CDL01	Q1282207	INORGAN	THALLIUM	0.5		0.501	mg/L	100.2	
ICS-A	Q1282209	PERKIN	THALLIUM	0.1		0.107	mg/L	107	
BLA02	Q1281520	NA	THALLIUM			0.00421	mg/L		
LCS	Q1281521	INORGAN	THALLIUM	0.5		0.575	mg/L	115	
SPI02	Q1281522	A566287	THALLIUM	0.0139	3	3.20	mg/L	106.2	
DPS02	Q1281523	A566287	THALLIUM	0.0139	3	3.28	mg/L	108.9	2.5
CCV	Q1282216	INORGAN	THALLIUM	0.1		0.119	mg/L	119	
BLA01	Q1282217	NA	THALLIUM			0.00603	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1282218	INORGAN	THALLIUM	0.1		0.105	mg/L	105	
BLA01	Q1282219	NA	THALLIUM			0.00490	mg/L		
CDL01	Q1282222	PERKIN-	THALLIUM	0.02		0.0248	mg/L	124	
ICS-A	Q1282224	PERKIN	THALLIUM	0.1		0.112	mg/L	112	

Run: R420023
ANALYTICALAnalyst.: D DRABENSTOTT
Reviewer: S ENDERSONRun Date...: 23-SEP-01
Review Date: 24-SEP-01

Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1283474	PERKIN-	THALLIUM	0.05		0.0526	mg/L	105.2	
CDL01	Q1283479	INORGAN	THALLIUM	0.5		0.495	mg/L	99	
ICS-A	Q1283481	PERKIN	THALLIUM	0.1		0.110	mg/L	110	
CCV	Q1283484	INORGAN	THALLIUM	0.1		0.109	mg/L	109	
BLA01	Q1283485	NA	THALLIUM			0.00449	mg/L		
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
CCV	Q1283486	INORGAN	THALLIUM	0.1		0.100	mg/L	100	
BLA01	Q1283487	NA	THALLIUM			0.00589	mg/L		
CDL01	Q1283494	PERKIN-	THALLIUM	0.02		0.0246	mg/L	123	
ICS-A	Q1283496	PERKIN	THALLIUM	0.1		0.0988	mg/L	98.8	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

VANADIUM ICP SW846-6010B

M138.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777
SAMPLE	A566288	Rep: 0	R419777
SAMPLE	A566289	Rep: 0	R419777
SAMPLE	A566290	Rep: 0	R419777
SAMPLE	A566291	Rep: 0	R419777
SAMPLE	A566292	Rep: 0	R419777
SAMPLE	A566293	Rep: 0	R419777

Run: R419777
ANALYTICALAnalyst.: J KRAMER
Reviewer: S ENDERSONRun Date...: 18-SEP-01
Review Date: 19-SEP-01

Instrument: ICP

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	VANADIUM	1		1.02	mg/L	102	
CDL01	Q1281988	INORGAN	VANADIUM	10		9.94	mg/L	99.4	
ICS-A	Q1281990	PERKIN	VANADIUM	0.500		0.499	mg/L	99.8	
CCV	Q1281993	INORGAN	VANADIUM	5.00		5.04	mg/L	100.8	
BLA01	Q1281994	NA	VANADIUM			< 0.00400	mg/L		
BLA02	Q1281516	NA	VANADIUM			< 0.00400	mg/L		
LCS	Q1281517	SPEX	VANADIUM	5.00		5.14	mg/L	102.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	VANADIUM	0	0.500	0.518	mg/L	103.6	
DPS02	Q1281519	A566287	VANADIUM	0	0.500	0.520	mg/L	104	.4
CCV	Q1281995	INORGAN	VANADIUM	5.00		5.03	mg/L	100.6	
BLA01	Q1281996	NA	VANADIUM			< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	VANADIUM	5.00		5.03	mg/L	100.6	
BLA01	Q1281998	NA	VANADIUM			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	VANADIUM	0.100		0.101	mg/L	101	
ICS-A	Q1282023	PERKIN	VANADIUM	0.500		0.491	mg/L	98.2	

ZINC ICP SW846-6010B

M139.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R419695
PREPAnalyst.: M HALL
Reviewer: W WATNESSRun Date...: 18-SEP-01
Review Date: 19-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281516	NA	R419777
LCS	Q1281517	SPEX	R419777
SPI02	Q1281518	A566287	R419777
DPS02	Q1281519	A566287	R419777
SAMPLE	A566287	Rep: 0	R419777

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run						
SAMPLE	A566288	Rep: 0	R419777						
SAMPLE	A566289	Rep: 0	R419777						
SAMPLE	A566290	Rep: 0	R419777						
SAMPLE	A566291	Rep: 0	R419777						
SAMPLE	A566292	Rep: 0	R419777						
SAMPLE	A566293	Rep: 0	R419777						
Run: R419777 ANALYTICAL				Analyst.: J KRAMER Reviewer: S ENDERSON		Run Date...: 18-SEP-01 Review Date: 19-SEP-01		Instrument: ICP	
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	ZINC	1		1.04	mg/L	104	
CDL01	Q1281988	INORGAN	ZINC	10		9.97	mg/L	99.7	
ICS-A	Q1281990	PERKIN	ZINC	1.00		0.938	mg/L	93.8	
CCV	Q1281993	INORGAN	ZINC	5.00		5.12	mg/L	102.4	
BLA01	Q1281994	NA	ZINC			< 0.00800	mg/L		
BLA02	Q1281516	NA	ZINC			< 0.00800	mg/L		
LCS	Q1281517	SPEX	ZINC	5.00		5.15	mg/L	103	
SAMPLE	A566287	See Cert. of Analysis, Rep: 0							
SPI02	Q1281518	A566287	ZINC	0	0.500	0.524	mg/L	104.8	
DPS02	Q1281519	A566287	ZINC	0	0.500	0.518	mg/L	103.6	1.2
CCV	Q1281995	INORGAN	ZINC	5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A566288	See Cert. of Analysis, Rep: 0							
SAMPLE	A566289	See Cert. of Analysis, Rep: 0							
SAMPLE	A566290	See Cert. of Analysis, Rep: 0							
SAMPLE	A566291	See Cert. of Analysis, Rep: 0							
SAMPLE	A566292	See Cert. of Analysis, Rep: 0							
SAMPLE	A566293	See Cert. of Analysis, Rep: 0							
CCV	Q1281997	INORGAN	ZINC	5.00		5.05	mg/L	101	
BLA01	Q1281998	NA	ZINC			< 0.00800	mg/L		
CDL01	Q1282021	PERKIN	ZINC	0.040		0.0426	mg/L	106.5	
ICS-A	Q1282023	PERKIN	ZINC	1.00		0.901	mg/L	90.1	

PCB/PESTICIDE SCAN GC:ECD SW846-8081

0305.1

Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Run: R419670 PREP				Analyst.: S BRYAN Reviewer: T PINCKERT		Run Date...: 17-SEP-01 Review Date: 17-SEP-01			
QC Type	Lab ID	Source	Anal Run						
BLA02	Q1281228		R420016						
LCS	Q1281229		R420016						
SPI02	Q1281230	A566287	R420016						
DPS02	Q1281231	A566287	R420016						
SAMPLE	A566287	Rep: 0	R420016						
SAMPLE	A566288	Rep: 0	R420016						
SAMPLE	A566289	Rep: 0	R420016						
SAMPLE	A566290	Rep: 0	R420016						
SAMPLE	A566291	Rep: 0	R420016						
SAMPLE	A566292	Rep: 0	R420016						
SAMPLE	A566293	Rep: 0	R420016						
Run: R420016 ANALYTICAL				Analyst.: T PINCKERT Reviewer: E WERNZ		Run Date...: 20-SEP-01 Review Date: 24-SEP-01		Instrument: GC/ECD	
QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1283469		ALPHA-BHC	20		19.1	ug/L	95.5	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1283469		BETA-BHC	20		18.1	ug/L	90.5	
ICV01	Q1283469		DELTA-BHC	20		18.4	ug/L	92	
ICV01	Q1283469		GAMMA-BHC (LINDANE)	20		20.9	ug/L	104.5	
ICV01	Q1283469		HEPTACHLOR	20		19.9	ug/L	99.5	
ICV01	Q1283469		ALDRIN	20		19.4	ug/L	97	
ICV01	Q1283469		HEPTACHLOR EPOXIDE	20		19.3	ug/L	96.5	
ICV01	Q1283469		ENDOSULFAN I	20		20.4	ug/L	102	
ICV01	Q1283469		DIELDRIN	20		20.1	ug/L	100.5	
ICV01	Q1283469		4,4'-DDE	20		18.3	ug/L	91.5	
ICV01	Q1283469		ENDRIN	20		20.8	ug/L	104	
ICV01	Q1283469		ENDOSULFAN II	20		19.5	ug/L	97.5	
ICV01	Q1283469		4,4'-DDD	20		15.9	ug/L	79.5	
ICV01	Q1283469		ENDOSULFAN SULFATE	20		19.2	ug/L	96	
ICV01	Q1283469		4,4'-DDT	20		15.9	ug/L	79.5	
ICV01	Q1283469		METHOXYCHLOR	20		13.7	ug/L	68.5	
ICV01	Q1283469		ENDRIN ALDEHYDE	20		26	ug/L	130	
ICV01	Q1283469		ENDRIN KETONE	20		21.3	ug/L	106.5	
ICV01	Q1283469		ALPHA-CHLORDANE	20		19.9	ug/L	99.5	
ICV01	Q1283469		GAMMA-CHLORDANE	20		18.7	ug/L	93.5	
CCV	Q1283470		ALPHA-BHC	20		18.8	ug/L	94	
CCV	Q1283470		BETA-BHC	20		19.7	ug/L	98.5	
CCV	Q1283470		DELTA-BHC	20		16.8	ug/L	84	
CCV	Q1283470		GAMMA-BHC (LINDANE)	20		20.2	ug/L	101	
CCV	Q1283470		HEPTACHLOR	20		14.3	ug/L	71.5	
CCV	Q1283470		ALDRIN	20		16.8	ug/L	84	
CCV	Q1283470		HEPTACHLOR EPOXIDE	20		17	ug/L	85	
CCV	Q1283470		ENDOSULFAN I	20		19.5	ug/L	97.5	
CCV	Q1283470		DIELDRIN	40		41.5	ug/L	103.8	
CCV	Q1283470		4,4'-DDE	40		35.4	ug/L	88.5	
CCV	Q1283470		ENDRIN	40		40.6	ug/L	101.5	
CCV	Q1283470		ENDOSULFAN II	40		35.7	ug/L	89.3	
CCV	Q1283470		4,4'-DDD	40		43.1	ug/L	107.8	
CCV	Q1283470		ENDOSULFAN SULFATE	40		35.4	ug/L	88.5	
CCV	Q1283470		4,4'-DDT	40		37	ug/L	92.5	
CCV	Q1283470		METHOXYCHLOR	200		175.8	ug/L	87.9	
CCV	Q1283470		ENDRIN ALDEHYDE	40		36.4	ug/L	91	
CCV	Q1283470		ENDRIN KETONE	40		36.6	ug/L	91.5	
CCV	Q1283470		ALPHA-CHLORDANE	20		17.4	ug/L	87	
CCV	Q1283470		GAMMA-CHLORDANE	20		16.8	ug/L	84	
BLA02	Q1281228		ALPHA-BHC			BDL 0.05	ug/L		
BLA02	Q1281228		BETA-BHC			BDL 0.05	ug/L		
BLA02	Q1281228		DELTA-BHC			BDL 0.05	ug/L		
BLA02	Q1281228		GAMMA-BHC (LINDANE)			BDL 0.05	ug/L		
BLA02	Q1281228		HEPTACHLOR			BDL 0.05	ug/L		
BLA02	Q1281228		ALDRIN			BDL 0.05	ug/L		
BLA02	Q1281228		HEPTACHLOR EPOXIDE			BDL 0.05	ug/L		
BLA02	Q1281228		ENDOSULFAN I			BDL 0.05	ug/L		
BLA02	Q1281228		DIELDRIN			BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDE			BDL 0.1	ug/L		
BLA02	Q1281228		ENDRIN			BDL 0.1	ug/L		
BLA02	Q1281228		ENDOSULFAN II			BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDD			BDL 0.1	ug/L		
BLA02	Q1281228		ENDOSULFAN SULFATE			BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDT			BDL 0.1	ug/L		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1281228		METHOXYCHLOR			BDL 0.5	ug/L		
BLA02	Q1281228		ENDRIN ALDEHYDE			BDL 0.1	ug/L		
BLA02	Q1281228		ENDRIN KETONE			BDL 0.1	ug/L		
BLA02	Q1281228		ALPHA-CHLORDANE			BDL 0.05	ug/L		
BLA02	Q1281228		GAMMA-CHLORDANE			BDL 0.05	ug/L		
BLA02	Q1281228		TOXAPHENE			BDL 1	ug/L		
BLA02	Q1281228		PCB AROCLOR 1016			BDL 0.5	ug/L		
BLA02	Q1281228		PCB AROCLOR 1221			BDL 0.5	ug/L		
BLA02	Q1281228		PCB AROCLOR 1232			BDL 0.5	ug/L		
BLA02	Q1281228		PCB AROCLOR 1242			BDL 0.5	ug/L		
BLA02	Q1281228		PCB AROCLOR 1248			BDL 0.5	ug/L		
BLA02	Q1281228		PCB AROCLOR 1254			BDL 1	ug/L		
BLA02	Q1281228		PCB AROCLOR 1260			BDL 1	ug/L		
LCS	Q1281229		GAMMA-BHC (LINDANE)	0.5		0.574	ug/L	114.8	
LCS	Q1281229		HEPTACHLOR	0.5		0.383	ug/L	76.6	
LCS	Q1281229		ALDRIN	0.5		0.428	ug/L	85.6	
LCS	Q1281229		DIELDRIN	1		1.11	ug/L	111	
LCS	Q1281229		ENDRIN	1		1.04	ug/L	104	
LCS	Q1281229		4,4'-DDT	1		0.918	ug/L	91.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SP102	Q1281230	A566287	GAMMA-BHC (LINDANE)	0	1.06	1.13	ug/L	106.6	
SP102	Q1281230	A566287	HEPTACHLOR	0	1.06	0.884	ug/L	83.4	
SP102	Q1281230	A566287	ALDRIN	0	1.06	0.96	ug/L	90.6	
SP102	Q1281230	A566287	DIELDRIN	0	2.13	2.18	ug/L	102.3	
SP102	Q1281230	A566287	ENDRIN	0	2.13	1.96	ug/L	92	
SP102	Q1281230	A566287	4,4'-DDT	0	2.13	1.86	ug/L	87.3	
DPS02	Q1281231	A566287	GAMMA-BHC (LINDANE)	0	1.06	1.13	ug/L	106.6	0
DPS02	Q1281231	A566287	HEPTACHLOR	0	1.06	0.939	ug/L	88.6	6
DPS02	Q1281231	A566287	ALDRIN	0	1.06	0.97	ug/L	91.5	1
DPS02	Q1281231	A566287	DIELDRIN	0	2.13	2.34	ug/L	109.9	7.2
DPS02	Q1281231	A566287	ENDRIN	0	2.13	2.11	ug/L	99.1	7.4
DPS02	Q1281231	A566287	4,4'-DDT	0	2.13	2.29	ug/L	107.5	20.7
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1283471		ALPHA-BHC	20		18.6	ug/L	93	
CCV	Q1283471		BETA-BHC	20		18.5	ug/L	92.5	
CCV	Q1283471		DELTA-BHC	20		16.3	ug/L	81.5	
CCV	Q1283471		GAMMA-BHC (LINDANE)	20		19.6	ug/L	98	
CCV	Q1283471		HEPTACHLOR	20		18.3	ug/L	91.5	
CCV	Q1283471		ALDRIN	20		18.4	ug/L	92	
CCV	Q1283471		HEPTACHLOR EPOXIDE	20		19	ug/L	95	
CCV	Q1283471		ENDOSULFAN I	20		21.4	ug/L	107	
CCV	Q1283471		DIELDRIN	40		43.7	ug/L	109.3	
CCV	Q1283471		4,4'-DDE	40		40.1	ug/L	100.3	
CCV	Q1283471		ENDRIN	40		39.1	ug/L	97.8	
CCV	Q1283471		ENDOSULFAN II	40		39.8	ug/L	99.5	
CCV	Q1283471		4,4'-DDD	40		38.3	ug/L	95.8	
CCV	Q1283471		ENDOSULFAN SULFATE	40		39.8	ug/L	99.5	
CCV	Q1283471		4,4'-DDT	40		32.1	ug/L	80.3	
CCV	Q1283471		METHOXYCHLOR	200		149.9	ug/L	75	

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 - b. of negligent acts, errors or omissions of the Client; or
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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q1283471		ENDRIN ALDEHYDE	40		38.6	ug/L	96.5	
CCV	Q1283471		ENDRIN KETONE	40		37.2	ug/L	93	
CCV	Q1283471		ALPHA-CHLORDANE	20		19	ug/L	95	
CCV	Q1283471		GAMMA-CHLORDANE	20		19.4	ug/L	97	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS SW846-8270C 0505.3

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Run: R419756 Analyst.: V BROWN Run Date...: 18-SEP-01
 PREP Reviewer: J MINNIEAR, II Review Date: 18-SEP-01

QC Type	Lab ID	Source	Anal Run
BLA02	Q1281844	HLI	R420012
LCS	Q1281845	HLI	R420012
SPI02	Q1282136	A566575	R420156
DPS02	Q1282137	A566575	R420156
SAMPLE	A566287	Rep: 0	R420012
SAMPLE	A566288	Rep: 0	R420012
SAMPLE	A566289	Rep: 0	R420012
SAMPLE	A566290	Rep: 0	R420012
SAMPLE	A566291	Rep: 0	R420012
SAMPLE	A566292	Rep: 0	R420012
SAMPLE	A566293	Rep: 0	R420012

Run: R420012 Analyst.: L CALLAHAN Run Date...: 21-SEP-01 Instrument: GC/MS SVOA
 ANALYTICAL Reviewer: L SMITH Review Date: 24-SEP-01

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	21-SEP-01	16:48:00				
BLA02	Q1281844	HLI	ACENAPHTHENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	ACENAPHTHYLENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	ANTHRACENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(A)PYRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUOR			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(G,H,I)PERYLENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(K)FLUORANTHENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZYL ALCOHOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZYL BUTYL PHTHALATE (BUTYL BENZYL PHT			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-CHLOROETHOXY)METHANE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-CHLOROETHYL)ETHER			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-CHLOROISOPROPYL)ETHER			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-ETHYLHEXYL)PHTHALATE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-BROMODIPHENYL ETHER			BDL 10.	ug/L		
BLA02	Q1281844	HLI	CARBAZOLE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-CHLOROANILINE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-CHLORONAPHTHALENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-CHLOROPHENYL-PHENYLETHER			BDL 10.	ug/L		
BLA02	Q1281844	HLI	CHRYSENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	DIBENZ(A,H)ANTHRACENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	DIBENZOFURAN			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	3,3'-DICHLOROBENZIDINE			BDL 20.	ug/L		
BLA02	Q1281844	HLI	DIETHYL PHTHALATE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	DIMETHYL PHTHALATE			BDL 10.	ug/L		

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Samp	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1281844	HLI	DI-N-BUTYLPHthalate			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DINITROToluene			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,6-DINITROToluene			BDL 10.	ug/L		
BLA02	Q1281844	HLI	DI-N-OCTYLPHthalate			BDL 10.	ug/L		
BLA02	Q1281844	HLI	FLUORANTHENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	FLUORENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROBUTADIENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROCYCLOPENTADIENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROETHANE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	INDENO(1,2,3-CD)PYRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	ISOPHORONE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-METHYLNAPHTHALENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	NAPHTHALENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-NITROANILINE (O-NITROANILINE)			BDL 50.	ug/L		
BLA02	Q1281844	HLI	3-NITROANILINE (M-NITROANILINE)			BDL 50.	ug/L		
BLA02	Q1281844	HLI	4-NITROANILINE (P-NITROANILINE)			BDL 50.	ug/L		
BLA02	Q1281844	HLI	NITROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	N-NITROSODIPHENYLAMINE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	PHENANTHRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-PICOLINE			BDL 50.	ug/L		
BLA02	Q1281844	HLI	PYRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	PYRIDINE			BDL 50.	ug/L		
BLA02	Q1281844	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1,2,4-TRICHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZOIC ACID			BDL 50.	ug/L		
BLA02	Q1281844	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-)			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-CHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DICHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DIMETHYLPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DINITROPHENOL			BDL 50.	ug/L		
BLA02	Q1281844	HLI	2-METHYLPHENOL (O-CRESOL)			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-METHYLPHENOL (P-CRESOL)			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-NITROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-NITROPHENOL			BDL 50.	ug/L		
BLA02	Q1281844	HLI	PENTACHLOROPHENOL			BDL 50.	ug/L		
BLA02	Q1281844	HLI	PHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4,5-TRICHLOROPHENOL			BDL 50.	ug/L		
BLA02	Q1281844	HLI	2,4,6-TRICHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-FLUOROPHENOL					61	
BLA02	Q1281844	HLI	PHENOL-D5					41	
BLA02	Q1281844	HLI	NITROBENZENE-D5					101	
BLA02	Q1281844	HLI	2-FLUOROBIPHENYL					83	
BLA02	Q1281844	HLI	2,4,6-TRIBROMOPHENOL					87	
BLA02	Q1281844	HLI	TERPHENYL-D14					45	
			Date and time of analysis	21-SEP-01	17:29:00				
LCS	Q1281845	HLI	ACENAPHTHENE	100		88.3	ug/L	88.3	
LCS	Q1281845	HLI	ACENAPHTHYLENE	100		82.3	ug/L	82.3	
LCS	Q1281845	HLI	ANTHRACENE	100		86.9	ug/L	86.9	
LCS	Q1281845	HLI	BENZO(A)PYRENE	100		87.4	ug/L	87.4	
LCS	Q1281845	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	100		90.9	ug/L	90.9	
LCS	Q1281845	HLI	BENZO(G,H,I)PERYLENE	100		93.6	ug/L	93.6	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

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LCS	Q1281845	HLI	BENZO(K)FLUORANTHENE	100		85.4	ug/L	85.4	
LCS	Q1281845	HLI	BENZYL ALCOHOL	100		80	ug/L	80	
LCS	Q1281845	HLI	BENZYL BUTYL PHTHALATE (BUTYL BENZYL PHTHALATE)	100		92.9	ug/L	92.9	
LCS	Q1281845	HLI	BIS(2-CHLOROETHOXY)METHANE	100		86.4	ug/L	86.4	
LCS	Q1281845	HLI	BIS(2-CHLOROETHYL)ETHER	100		80.6	ug/L	80.6	
LCS	Q1281845	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100		110	ug/L	110	
LCS	Q1281845	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100		93.7	ug/L	93.7	
LCS	Q1281845	HLI	4-BROMODIPHENYL ETHER	100		81.1	ug/L	81.1	
LCS	Q1281845	HLI	CARBAZOLE	100		46	ug/L	92	
LCS	Q1281845	HLI	4-CHLOROANILINE	100		84.1	ug/L	84.1	
LCS	Q1281845	HLI	2-CHLORONAPHTHALENE	100		107	ug/L	107	
LCS	Q1281845	HLI	4-CHLOROPHENYL-PHENYLETHER	100		88.7	ug/L	88.7	
LCS	Q1281845	HLI	CHRYSENE	100		94.9	ug/L	94.9	
LCS	Q1281845	HLI	DIBENZ(A,H)ANTHRACENE	100		91.6	ug/L	91.6	
LCS	Q1281845	HLI	DIBENZOFURAN	100		89.1	ug/L	89.1	
LCS	Q1281845	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	100		78.9	ug/L	78.9	
LCS	Q1281845	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	100		77	ug/L	77	
LCS	Q1281845	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	100		78.8	ug/L	78.8	
LCS	Q1281845	HLI	3,3'-DICHLOROBENZIDINE	100		120	ug/L	120	
LCS	Q1281845	HLI	DIETHYL PHTHALATE	100		89.6	ug/L	89.6	
LCS	Q1281845	HLI	DIMETHYL PHTHALATE	100		86.9	ug/L	86.9	
LCS	Q1281845	HLI	DI-N-BUTYL PHTHALATE	100		88.8	ug/L	88.8	
LCS	Q1281845	HLI	2,4-DINITROTOLUENE	100		105	ug/L	105	
LCS	Q1281845	HLI	2,6-DINITROTOLUENE	100		96.4	ug/L	96.4	
LCS	Q1281845	HLI	DI-N-OCTYL PHTHALATE	100		89.8	ug/L	89.8	
LCS	Q1281845	HLI	FLUORANTHENE	100		89.5	ug/L	89.5	
LCS	Q1281845	HLI	FLUORENE	100		87.1	ug/L	87.1	
LCS	Q1281845	HLI	HEXACHLOROBENZENE	100		81.3	ug/L	81.3	
LCS	Q1281845	HLI	HEXACHLOROBUTADIENE	100		77.4	ug/L	77.4	
LCS	Q1281845	HLI	HEXACHLOROCYCLOPENTADIENE	100		61.9	ug/L	61.9	
LCS	Q1281845	HLI	HEXACHLOROETHANE	100		76.9	ug/L	76.9	
LCS	Q1281845	HLI	INDENO(1,2,3-CD)PYRENE	100		98.2	ug/L	98.2	
LCS	Q1281845	HLI	ISOPHORONE	100		77.9	ug/L	77.9	
LCS	Q1281845	HLI	2-METHYLNAPHTHALENE	100		86.7	ug/L	86.7	
LCS	Q1281845	HLI	NAPHTHALENE	100		83.6	ug/L	83.6	
LCS	Q1281845	HLI	2-NITROANILINE (O-NITROANILINE)	100		98.8	ug/L	98.8	
LCS	Q1281845	HLI	3-NITROANILINE (M-NITROANILINE)	100		112	ug/L	112	
LCS	Q1281845	HLI	4-NITROANILINE (P-NITROANILINE)	100		103	ug/L	103	
LCS	Q1281845	HLI	NITROBENZENE	100		90.3	ug/L	90.3	
LCS	Q1281845	HLI	N-NITROSODIPHENYLAMINE	100		168	ug/L	168	
LCS	Q1281845	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		90.1	ug/L	90.1	
LCS	Q1281845	HLI	PHENANTHRENE	100		87.5	ug/L	87.5	
LCS	Q1281845	HLI	2-PICOLINE	100		76.2	ug/L	76.2	
LCS	Q1281845	HLI	PYRENE	100		89.6	ug/L	89.6	
LCS	Q1281845	HLI	PYRIDINE	100		46.6	ug/L	46.6	
LCS	Q1281845	HLI	1,2,4,5-TETRACHLOROBENZENE	100		88.5	ug/L	88.5	
LCS	Q1281845	HLI	1,2,4-TRICHLOROBENZENE	100		80.7	ug/L	80.7	
LCS	Q1281845	HLI	BENZOIC ACID	100		5.2	ug/L	5.2	
LCS	Q1281845	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	100		87	ug/L	87	
LCS	Q1281845	HLI	2-CHLOROPHENOL	100		83.4	ug/L	83.4	
LCS	Q1281845	HLI	2,4-DICHLOROPHENOL	100		86.8	ug/L	86.8	
LCS	Q1281845	HLI	2,4-DIMETHYLPHENOL	100		73.7	ug/L	73.7	
LCS	Q1281845	HLI	2,4-DINITROPHENOL	100		119	ug/L	119	
LCS	Q1281845	HLI	2-METHYLPHENOL (O-CRESOL)	100		77.4	ug/L	77.4	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1281845	HLI	4-METHYLPHENOL (P-CRESOL)	100		73.2	ug/L	73.2	
LCS	Q1281845	HLI	2-NITROPHENOL	100		102	ug/L	102	
LCS	Q1281845	HLI	4-NITROPHENOL	100		47	ug/L	47	
LCS	Q1281845	HLI	PENTACHLOROPHENOL	100		89.3	ug/L	89.3	
LCS	Q1281845	HLI	PHENOL	100		46.8	ug/L	46.8	
LCS	Q1281845	HLI	2,3,4,6-TETRACHLOROPHENOL	100		90.6	ug/L	90.6	
LCS	Q1281845	HLI	2,4,5-TRICHLOROPHENOL	100		88.1	ug/L	88.1	
LCS	Q1281845	HLI	2,4,6-TRICHLOROPHENOL	100		87.3	ug/L	87.3	
			Date and time of analysis	21-SEP-01	18:09:00				
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	18:49:00				
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	19:30:00				
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	20:10:00				
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	20:51:00				
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	21:31:00				
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	22:12:00				
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	12:44:00				
CAL01	Q1283463		PYRIDINE	0.8570					3.8
CAL01	Q1283463		2-PICOLINE	1.0147					4.9
CAL01	Q1283463		PHENOL	1.3039					13.2
CAL01	Q1283463		BIS(2-CHLOROETHYL)ETHER	0.9046					17.1
CAL01	Q1283463		2-CHLOROPHENOL	1.2266					14.6
CAL01	Q1283463		1,3-DICHLOROBENZENE (M-DICHLOROBENZE	1.4515					13.6
CAL01	Q1283463		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.4469					14.2
CAL01	Q1283463		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.3434					15.4
CAL01	Q1283463		BENZYL ALCOHOL	0.7281					9.7
CAL01	Q1283463		2-METHYLPHENOL (O-CRESOL)	1.0246					12.4
CAL01	Q1283463		BIS(2-CHLOROISOPROPYL)ETHER	1.4535					11.3
CAL01	Q1283463		N-NITROSO-DI-N-PROPYLAMINE	0.6026					10.5
CAL01	Q1283463		4-METHYLPHENOL (P-CRESOL)	1.0041					15.8
CAL01	Q1283463		HEXACHLOROETHANE	0.4575					19.1
CAL01	Q1283463		NITROBENZENE	0.2413					9.4
CAL01	Q1283463		ISOPHORONE	0.4602					9.4
CAL01	Q1283463		2-NITROPHENOL	0.1599					18.6
CAL01	Q1283463		2,4-DIMETHYLPHENOL	0.2944					11
CAL01	Q1283463		BIS(2-CHLOROETHOXY)METHANE	0.3109					11.8
CAL01	Q1283463		2,4-DICHLOROPHENOL	0.2769					10.3
CAL01	Q1283463		BENZOIC ACID	0.1326					57.5
CAL01	Q1283463		1,2,4-TRICHLOROBENZENE	0.2985					15
CAL01	Q1283463		NAPHTHALENE	0.9408					15.9
CAL01	Q1283463		4-CHLOROANILINE	0.3887					7.9
CAL01	Q1283463		HEXACHLOROBUTADIENE	0.1428					17.3
CAL01	Q1283463		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	0.2351					9.1
CAL01	Q1283463		2-METHYLNAPHTHALENE	0.6162					13.8
CAL01	Q1283463		HEXACHLOROCYCLOPENTADIENE	0.2091					16
CAL01	Q1283463		1,2,4,5-TETRACHLOROBENZENE	0.4511					17.8
CAL01	Q1283463		2,4,6-TRICHLOROPHENOL	0.3588					11.3
CAL01	Q1283463		2,4,5-TRICHLOROPHENOL	0.3769					9.7

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CAL01	Q1283463		2-CHLORONAPHTHALENE	1.1490					15.7
CAL01	Q1283463		2-NITROANILINE (O-NITROANILINE)	0.2369					11.1
CAL01	Q1283463		DIMETHYLPHTHALATE	1.2139					18.8
CAL01	Q1283463		2,6-DINITROTOLUENE	0.2321					7.4
CAL01	Q1283463		ACENAPHTHYLENE	1.7694					18.7
CAL01	Q1283463		3-NITROANILINE (M-NITROANILINE)	0.2590					11.5
CAL01	Q1283463		ACENAPHTHENE	1.1086					15.3
CAL01	Q1283463		2,4-DINITROPHENOL	0.0686					68.8
CAL01	Q1283463		4-NITROPHENOL	0.1102					10.8
CAL01	Q1283463		DIBENZOFURAN	1.4795					16.3
CAL01	Q1283463		2,4-DINITROTOLUENE	0.3157					17.8
CAL01	Q1283463		2,3,4,6-TETRACHLOROPHENOL	0.2207					7
CAL01	Q1283463		DIETHYLPHTHALATE	1.2106					16.7
CAL01	Q1283463		FLUORENE	1.2120					16.7
CAL01	Q1283463		4-CHLOROPHENYL-PHENYLETHER	0.5439					15.1
CAL01	Q1283463		4-NITROANILINE (P-NITROANILINE)	0.2773					7.7
CAL01	Q1283463		N-NITROSODIPHENYLAMINE	0.5472					16
CAL01	Q1283463		4-BROMODIPHENYL ETHER	0.1360					23.9
CAL01	Q1283463		HEXACHLOROBENZENE	0.1234					17
CAL01	Q1283463		PENTACHLOROPHENOL	0.0771					12.3
CAL01	Q1283463		PHENANTHRENE	1.0025					17.3
CAL01	Q1283463		ANTHRACENE	1.0511					17.8
CAL01	Q1283463		CARBAZOLE	1.7832					19.5
CAL01	Q1283463		DI-N-BUTYLPHTHALATE	1.1954					20.8
CAL01	Q1283463		FLUORANTHENE	0.9741					20.7
CAL01	Q1283463		PYRENE	1.9184					9.1
CAL01	Q1283463		BENZYL BUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.9814					8.3
CAL01	Q1283463		3,3'-DICHLOROBENZIDINE	0.2522					7.7
CAL01	Q1283463		CHRYSENE	1.4288					8.9
CAL01	Q1283463		BIS(2-ETHYLHEXYL)PHTHALATE	1.3419					9.2
CAL01	Q1283463		DI-N-OCTYLPHTHALATE	2.9146					8
CAL01	Q1283463		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.3530					9.4
CAL01	Q1283463		BENZO(K)FLUORANTHENE	1.2644					13.9
CAL01	Q1283463		BENZO(A)PYRENE	1.1730					11.9
CAL01	Q1283463		INDENO(1,2,3-CD)PYRENE	0.7027					10.5
CAL01	Q1283463		DIBENZ(A,H)ANTHRACENE	0.7057					7.6
CAL01	Q1283463		BENZO(G,H,I)PERYLENE	0.7142					12.3
CAL01	Q1283463		2-FLUOROPHENOL	1.0678					8.2
CAL01	Q1283463		PHENOL-D5	1.2152					10.6
CAL01	Q1283463		NITROBENZENE-D5	0.2375					11.6
CAL01	Q1283463		2-FLUOROBIPHENYL	1.2794					16.6
CAL01	Q1283463		2,4,6-TRIBROMOPHENOL	0.0512					9.1
CAL01	Q1283463		TERPHENYL-D14	1.0726					12.3

Run: R420156
ANALYTICAL

Analyst.: L CALLAHAN
Reviewer: L SMITH

Run Date...: 26-SEP-01
Review Date: 28-SEP-01

Instrument: GC/MS SVOA

			Date and time of analysis	26-SEP-01	18:15:00				
SP102	Q1282136	A566575	ACENAPHTHENE	0	204	192	ug/L	94.1	
SP102	Q1282136	A566575	ACENAPHTHYLENE	0	204	188	ug/L	92.2	
SP102	Q1282136	A566575	ANTHRACENE	0	204	191	ug/L	93.6	
SP102	Q1282136	A566575	BENZO(A)PYRENE	0	204	203	ug/L	99.5	
SP102	Q1282136	A566575	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	0	204	199	ug/L	97.5	
SP102	Q1282136	A566575	BENZO(G,H,I)PERYLENE	0	204	264	ug/L	129.4	
SP102	Q1282136	A566575	BENZO(K)FLUORANTHENE	0	204	183	ug/L	89.7	
SP102	Q1282136	A566575	BENZYL ALCOHOL	0	204	217	ug/L	106.4	

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SP102	Q1282136	A566575	BENZYL BUTYLPHTHALATE (BUTYLBENZYLPH	0	204	228	ug/L	111.8	
SP102	Q1282136	A566575	BIS(2-CHLOROETHOXY)METHANE	0	204	220	ug/L	107.8	
SP102	Q1282136	A566575	BIS(2-CHLOROETHYL)ETHER	0	204	188	ug/L	92.2	
SP102	Q1282136	A566575	BIS(2-CHLOROISOPROPYL)ETHER	0	204	254	ug/L	124.5	
SP102	Q1282136	A566575	BIS(2-ETHYLHEXYL)PHTHALATE	0	204	228	ug/L	111.8	
SP102	Q1282136	A566575	4-BROMODIPHENYL ETHER	0	204	221	ug/L	108.3	
SP102	Q1282136	A566575	CARBAZOLE	0	204	214	ug/L	104.9	
SP102	Q1282136	A566575	4-CHLOROANILINE	0	204	221	ug/L	108.3	
SP102	Q1282136	A566575	2-CHLORONAPHTHALENE	0	204	206	ug/L	101	
SP102	Q1282136	A566575	4-CHLOROPHENYL-PHENYLETHER	0	204	212	ug/L	103.9	
SP102	Q1282136	A566575	CHRYSENE	0	204	209	ug/L	102.5	
SP102	Q1282136	A566575	DIBENZ(A,H)ANTHRACENE	0	204	266	ug/L	130.4	
SP102	Q1282136	A566575	DIBENZOFURAN	0	204	202	ug/L	99	
SP102	Q1282136	A566575	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	204	188	ug/L	92.2	
SP102	Q1282136	A566575	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	0	204	188	ug/L	92.2	
SP102	Q1282136	A566575	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	204	187	ug/L	91.7	
SP102	Q1282136	A566575	3,3'-DICHLOROBENZIDINE	0	204	269	ug/L	131.9	
SP102	Q1282136	A566575	DIETHYLPHTHALATE	0	204	191	ug/L	93.6	
SP102	Q1282136	A566575	DIMETHYLPHTHALATE	0	204	213	ug/L	104.4	
SP102	Q1282136	A566575	DI-N-BUTYLPHTHALATE	0	204	212	ug/L	103.9	
SP102	Q1282136	A566575	2,4-DINITROTOLUENE	0	204	215	ug/L	105.4	
SP102	Q1282136	A566575	2,6-DINITROTOLUENE	0	204	222	ug/L	108.8	
SP102	Q1282136	A566575	DI-N-OCTYLPHTHALATE	0	204	193	ug/L	94.6	
SP102	Q1282136	A566575	FLUORANTHENE	0	204	186	ug/L	91.2	
SP102	Q1282136	A566575	FLUORENE	0	204	170	ug/L	83.3	
SP102	Q1282136	A566575	HEXACHLOROBENZENE	0	204	215	ug/L	105.4	
SP102	Q1282136	A566575	HEXACHLOROBUTADIENE	0	204	194	ug/L	95.1	
SP102	Q1282136	A566575	HEXACHLOROCYCLOPENTADIENE	0	204	187	ug/L	91.7	
SP102	Q1282136	A566575	HEXACHLOROETHANE	0	204	186	ug/L	91.2	
SP102	Q1282136	A566575	INDENO(1,2,3-CD)PYRENE	0	204	266	ug/L	130.4	
SP102	Q1282136	A566575	ISOPHORONE	0	204	218	ug/L	106.9	
SP102	Q1282136	A566575	2-METHYLNAPHTHALENE	0	204	206	ug/L	101	
SP102	Q1282136	A566575	NAPHTHALENE	0	204	186	ug/L	91.2	
SP102	Q1282136	A566575	2-NITROANILINE (O-NITROANILINE)	0	204	233	ug/L	114.2	
SP102	Q1282136	A566575	3-NITROANILINE (M-NITROANILINE)	0	204	245	ug/L	120.1	
SP102	Q1282136	A566575	4-NITROANILINE (P-NITROANILINE)	0	204	207	ug/L	101.5	
SP102	Q1282136	A566575	NITROBENZENE	0	204	205	ug/L	100.5	
SP102	Q1282136	A566575	N-NITROSODIPHENYLAMINE	0	204	233	ug/L	114.2	
SP102	Q1282136	A566575	N-NITROSO-DI-N-PROPYLAMINE	0	204	221	ug/L	108.3	
SP102	Q1282136	A566575	PHENANTHRENE	0	204	208	ug/L	102	
SP102	Q1282136	A566575	2-PICOLINE	0	204	175	ug/L	85.8	
SP102	Q1282136	A566575	PYRENE	0	204	206	ug/L	101	
SP102	Q1282136	A566575	PYRIDINE	0	204	157	ug/L	77	
SP102	Q1282136	A566575	1,2,4,5-TETRACHLOROBENZENE	0	204	192	ug/L	94.1	
SP102	Q1282136	A566575	1,2,4-TRICHLOROBENZENE	0	204	196	ug/L	96.1	
SP102	Q1282136	A566575	BENZOIC ACID	0	204	164	ug/L	80.4	
SP102	Q1282136	A566575	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M	0	204	203	ug/L	99.5	
SP102	Q1282136	A566575	2-CHLOROPHENOL	0	204	180	ug/L	88.2	
SP102	Q1282136	A566575	2,4-DICHLOROPHENOL	0	204	195	ug/L	95.6	
SP102	Q1282136	A566575	2,4-DIMETHYLPHENOL	0	204	178	ug/L	87.3	
SP102	Q1282136	A566575	2,4-DINITROPHENOL	0	204	254	ug/L	124.5	
SP102	Q1282136	A566575	2-METHYLPHENOL (O-CRESOL)	0	204	180	ug/L	88.2	
SP102	Q1282136	A566575	4-METHYLPHENOL (P-CRESOL)	0	204	196	ug/L	96.1	
SP102	Q1282136	A566575	2-NITROPHENOL	0	204	224	ug/L	109.8	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SP102	Q1282136	A566575	4-NITROPHENOL	0	204	124	ug/L	60.8	
SP102	Q1282136	A566575	PENTACHLOROPHENOL	0	204	219	ug/L	107.4	
SP102	Q1282136	A566575	PHENOL	0	204	127	ug/L	62.3	
SP102	Q1282136	A566575	2,3,4,6-TETRACHLOROPHENOL	0	204	186	ug/L	91.2	
SP102	Q1282136	A566575	2,4,5-TRICHLOROPHENOL	0	204	207	ug/L	101.5	
SP102	Q1282136	A566575	2,4,6-TRICHLOROPHENOL	0	204	213	ug/L	104.4	
			Date and time of analysis	27-SEP-01	10:29:00				
DPS02	Q1282137	A566575	ACENAPHTHENE	0	204	200	ug/L	98	4.3
DPS02	Q1282137	A566575	ACENAPHTHYLENE	0	204	200	ug/L	98	6
DPS02	Q1282137	A566575	ANTHRACENE	0	204	201	ug/L	98.5	4.9
DPS02	Q1282137	A566575	BENZO(A)PYRENE	0	204	211	ug/L	103.4	3.8
DPS02	Q1282137	A566575	BENZO(B)FLUORANTHENE (3,4-BENZOFUOR	0	204	218	ug/L	106.9	9.3
DPS02	Q1282137	A566575	BENZO(G,H,I)PERYLENE	0	204	263	ug/L	128.9	2
DPS02	Q1282137	A566575	BENZO(K)FLUORANTHENE	0	204	188	ug/L	92.2	2.6
DPS02	Q1282137	A566575	BENZYL ALCOHOL	0	204	219	ug/L	107.4	.9
DPS02	Q1282137	A566575	BENZYL BUTYL PHTHALATE (BUTYLBENZYLPH	0	204	220	ug/L	107.8	3.4
DPS02	Q1282137	A566575	BIS(2-CHLOROETHOXY)METHANE	0	204	227	ug/L	111.3	3
DPS02	Q1282137	A566575	BIS(2-CHLOROETHYL)ETHER	0	204	205	ug/L	100.5	8.9
DPS02	Q1282137	A566575	BIS(2-CHLOROISOPROPYL)ETHER	0	204	* 273	ug/L	133.8	7
DPS02	Q1282137	A566575	BIS(2-ETHYLHEXYL)PHTHALATE	0	204	233	ug/L	114.2	2.2
DPS02	Q1282137	A566575	4-BROMODIPHENYL ETHER	0	204	220	ug/L	107.8	.3
DPS02	Q1282137	A566575	CARBAZOLE	0	204	232	ug/L	113.7	8.1
DPS02	Q1282137	A566575	4-CHLORANILINE	0	204	214	ug/L	104.9	3.3
DPS02	Q1282137	A566575	2-CHLORONAPHTHALENE	0	204	211	ug/L	103.4	2.4
DPS02	Q1282137	A566575	4-CHLOROPHENYL-PHENYLETHER	0	204	222	ug/L	108.8	4.7
DPS02	Q1282137	A566575	CHRYSENE	0	204	215	ug/L	105.4	3
DPS02	Q1282137	A566575	DIBENZ(A,H)ANTHRACENE	0	204	260	ug/L	127.5	2.1
DPS02	Q1282137	A566575	DIBENZOFURAN	0	204	214	ug/L	104.9	5.8
DPS02	Q1282137	A566575	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	204	204	ug/L	100	8.2
DPS02	Q1282137	A566575	1,3-DICHLOROBENZENE (M-DICHLOROBENZE	0	204	203	ug/L	99.5	7.5
DPS02	Q1282137	A566575	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	204	202	ug/L	99	7.9
DPS02	Q1282137	A566575	3,3'-DICHLOROBENZIDINE	0	204	268	ug/L	131.4	.4
DPS02	Q1282137	A566575	DIETHYLPHthalate	0	204	207	ug/L	101.5	8.2
DPS02	Q1282137	A566575	DIMETHYLPHthalate	0	204	227	ug/L	111.3	6.6
DPS02	Q1282137	A566575	DI-N-BUTYLPHthalate	0	204	227	ug/L	111.3	6.9
DPS02	Q1282137	A566575	2,4-DINITROTOLUENE	0	204	234	ug/L	114.7	8.5
DPS02	Q1282137	A566575	2,6-DINITROTOLUENE	0	204	238	ug/L	116.7	7
DPS02	Q1282137	A566575	DI-N-OCTYLPHthalate	0	204	211	ug/L	103.4	8.9
DPS02	Q1282137	A566575	FLUORANTHENE	0	204	209	ug/L	102.5	11.7
DPS02	Q1282137	A566575	FLUORENE	0	204	182	ug/L	89.2	6.8
DPS02	Q1282137	A566575	HEXACHLOROBENZENE	0	204	214	ug/L	104.9	.3
DPS02	Q1282137	A566575	HEXACHLOROBUTADIENE	0	204	208	ug/L	102	7.2
DPS02	Q1282137	A566575	HEXACHLOROCYCLOPENTADIENE	0	204	249	ug/L	122.1	28.3
DPS02	Q1282137	A566575	HEXACHLOROETHANE	0	204	206	ug/L	101	10.4
DPS02	Q1282137	A566575	INDENO(1,2,3-CD)PYRENE	0	204	264	ug/L	129.4	.8
DPS02	Q1282137	A566575	ISOPHORONE	0	204	225	ug/L	110.3	3.4
DPS02	Q1282137	A566575	2-METHYLNAPHTHALENE	0	204	218	ug/L	106.9	6
DPS02	Q1282137	A566575	NAPHTHALENE	0	204	198	ug/L	97.1	6.3
DPS02	Q1282137	A566575	2-NITROANILINE (O-NITROANILINE)	0	204	243	ug/L	119.1	4.2
DPS02	Q1282137	A566575	3-NITROANILINE (M-NITROANILINE)	0	204	264	ug/L	129.4	7.5
DPS02	Q1282137	A566575	4-NITROANILINE (P-NITROANILINE)	0	204	250	ug/L	122.5	18.9
DPS02	Q1282137	A566575	NITROBENZENE	0	204	216	ug/L	105.9	5.2
DPS02	Q1282137	A566575	N-NITROSODIPHENYLAMINE	0	204	231	ug/L	113.2	.7
DPS02	Q1282137	A566575	N-NITROSO-DI-N-PROPYLAMINE	0	204	226	ug/L	110.8	2.1

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS02	Q1282137	A566575	PHENANTHRENE	0	204	215	ug/L	105.4	3.4
DPS02	Q1282137	A566575	2-PICOLINE	0	204	152	ug/L	74.5	14.1
DPS02	Q1282137	A566575	PYRENE	0	204	203	ug/L	99.5	1.5
DPS02	Q1282137	A566575	PYRIDINE	0	204	142	ug/L	69.6	10.2
DPS02	Q1282137	A566575	1,2,4,5-TETRACHLOROBENZENE	0	204	195	ug/L	95.6	1.6
DPS02	Q1282137	A566575	1,2,4-TRICHLOROBENZENE	0	204	209	ug/L	102.5	6.4
DPS02	Q1282137	A566575	BENZOIC ACID	0	204	123	ug/L	60.3	28.6
DPS02	Q1282137	A566575	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-	0	204	213	ug/L	104.4	4.8
DPS02	Q1282137	A566575	2-CHLOROPHENOL	0	204	191	ug/L	93.6	6.1
DPS02	Q1282137	A566575	2,4-DICHLOROPHENOL	0	204	208	ug/L	102	6.5
DPS02	Q1282137	A566575	2,4-DIMETHYLPHENOL	0	204	159	ug/L	77.9	11.4
DPS02	Q1282137	A566575	2,4-DINITROPHENOL	0	204	* 363	ug/L	177.9	35.3
DPS02	Q1282137	A566575	2-METHYLPHENOL (O-CRESOL)	0	204	185	ug/L	90.7	3
DPS02	Q1282137	A566575	4-METHYLPHENOL (P-CRESOL)	0	204	204	ug/L	100	4.2
DPS02	Q1282137	A566575	2-NITROPHENOL	0	204	231	ug/L	113.2	2.9
DPS02	Q1282137	A566575	4-NITROPHENOL	0	204	157	ug/L	77	23.2
DPS02	Q1282137	A566575	PENTACHLOROPHENOL	0	204	251	ug/L	123	13.7
DPS02	Q1282137	A566575	PHENOL	0	204	138	ug/L	67.6	8
DPS02	Q1282137	A566575	2,3,4,6-TETRACHLOROPHENOL	0	204	204	ug/L	100	9.4
DPS02	Q1282137	A566575	2,4,5-TRICHLOROPHENOL	0	204	216	ug/L	105.9	4.3
DPS02	Q1282137	A566575	2,4,6-TRICHLOROPHENOL	0	204	219	ug/L	107.4	2.7

Comments

Q1281844 Analytes present greater than 1/2 of the detection limit are reported.

VOLATILE ORGANICS SW846-8240B

0510.3

Run: R419763
ANALYTICALAnalyst.: H WILLIAMS
Reviewer: R SHAMPRun Date....: 19-SEP-01
Review Date: 20-SEP-01

Instrument: GC/MS VOA

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	19-SEP-01	02:05:00				
CCVD	Q1282195		DICHLORODIFLUOROMETHANE	0.3190		0.3551			11.3
CCVD	Q1282195		CHLOROMETHANE	0.2134		0.1782			16.5
CCVD	Q1282195		VINYL CHLORIDE	0.2109		0.1976			6.3
CCVD	Q1282195		BROMOMETHANE	0.1587		0.2411			51.9
CCVD	Q1282195		CHLOROETHANE	0.1403		0.1657			18.1
CCVD	Q1282195		TRICHLOROFLUOROMETHANE	0.6655		1.0014			50.5
CCVD	Q1282195		ACROLEIN	0.0096		0.0056			41.7
CCVD	Q1282195		1,1-DICHLOROETHENE	0.2880		0.3334			15.8
CCVD	Q1282195		ACETONE (2-PROPANONE)	0.0171		0.0197			15.2
CCVD	Q1282195		CARBON DISULFIDE	0.7377		0.7331			.6
CCVD	Q1282195		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.2589		0.2725			5.3
CCVD	Q1282195		ACRYLONITRILE	0.0249		0.0301			20.9
CCVD	Q1282195		1,1-DICHLOROETHANE	0.6201		0.6812			9.9
CCVD	Q1282195		VINYL ACETATE	0.5144		0.5931			15.3
CCVD	Q1282195		METHYL ETHYL KETONE	0.0229		0.0222			3.1
CCVD	Q1282195		TETRAHYDROFURAN	0.0131		0.0106			19.1
CCVD	Q1282195		CHLOROFORM	0.6758		0.8063			19.3
CCVD	Q1282195		1,1,1-TRICHLOROETHANE	0.6578		0.9889			50.3
CCVD	Q1282195		CARBON TETRACHLORIDE	0.6712		1.1057			64.7
CCVD	Q1282195		BENZENE	0.7184		0.7767			8.1
CCVD	Q1282195		1,2-DICHLOROETHANE	0.2611		0.4024			54.1
CCVD	Q1282195		TRICHLOROETHENE	0.4490		0.5463			21.7

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CCVD	Q1282195		1,2-DICHLOROPROPANE	0.2756		0.2772			.6
CCVD	Q1282195		CIS-1,3-DICHLOROPROPENE	0.3476		0.3823			10
CCVD	Q1282195		TOLUENE	0.3965		0.4711			18.8
CCVD	Q1282195		TRANS-1,3-DICHLOROPROPENE	0.2152		0.2724			26.6
CCVD	Q1282195		1,1,2-TRICHLOROETHANE	0.1318		0.1448			9.9
CCVD	Q1282195		TETRACHLOROETHENE	0.9375		1.1130			18.7
CCVD	Q1282195		2-HEXANONE	0.0685		0.0639			6.7
CCVD	Q1282195		DIBROMOCHLOROMETHANE	0.6362		0.7080			11.3
CCVD	Q1282195		CHLOROBENZENE	0.8709		0.9767			12.1
CCVD	Q1282195		STYRENE	0.6408		0.7674			19.8
CCVD	Q1282195		BROMOFORM	0.3650		0.4446			21.8
CCVD	Q1282195		1,1,2,2-TETRACHLOROETHANE	0.5352		0.4039			24.5
CCVD	Q1282195		ETHYL BENZENE	1.4294		1.6896			18.2
CCVD	Q1282195		DICHLOROETHANE-D4	0.2662		0.3448			29.5
CCVD	Q1282195		TOLUENE-D8	0.7050		0.8734			23.9
CCVD	Q1282195		4-BROMOFLUOROBENZENE	1.5566		1.3906			10.7
			Date and time of analysis	19-SEP-01	02:53:00				
BLA01	Q1282196		DICHLORODIFLUOROMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		CHLOROMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		VINYL CHLORIDE			BDL 2.0	ug/L		
BLA01	Q1282196		BROMOMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		CHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		TRICHLOROFLUOROMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		ACROLEIN			BDL 25.	ug/L		
BLA01	Q1282196		1,1-DICHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q1282196		ACETONE (2-PROPANONE)			BDL 10.	ug/L		
BLA01	Q1282196		CARBON DISULFIDE			BDL 1.0	ug/L		
BLA01	Q1282196		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 1.0	ug/L		
BLA01	Q1282196		ACRYLONITRILE			BDL 10.	ug/L		
BLA01	Q1282196		1,1-DICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		VINYL ACETATE			BDL 10.	ug/L		
BLA01	Q1282196		METHYL ETHYL KETONE			BDL 5.0	ug/L		
BLA01	Q1282196		TETRAHYDROFURAN			BDL 20.	ug/L		
BLA01	Q1282196		CHLOROFORM			BDL 1.0	ug/L		
BLA01	Q1282196		1,1,1-TRICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		CARBON TETRACHLORIDE			BDL 1.0	ug/L		
BLA01	Q1282196		BENZENE			BDL 1.0	ug/L		
BLA01	Q1282196		1,2-DICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		TRICHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q1282196		1,2-DICHLOROPROPANE			BDL 1.0	ug/L		
BLA01	Q1282196		CIS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L		
BLA01	Q1282196		TOLUENE			BDL 1.0	ug/L		
BLA01	Q1282196		TRANS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L		
BLA01	Q1282196		1,1,2-TRICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		TETRACHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q1282196		2-HEXANONE			BDL 10.	ug/L		
BLA01	Q1282196		DIBROMOCHLOROMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		CHLOROBENZENE			BDL 1.0	ug/L		
BLA01	Q1282196		STYRENE			BDL 1.0	ug/L		
BLA01	Q1282196		BROMOFORM			BDL 1.0	ug/L		
BLA01	Q1282196		1,1,2,2-TETRACHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		ETHYL BENZENE			BDL 1.0	ug/L		
BLA01	Q1282196		DICHLOROETHANE-D4					115	
BLA01	Q1282196		TOLUENE-D8					111	

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HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Samp1	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q1282196		4-BROMOFLUOROBENZENE					90	
			Date and time of analysis	19-SEP-01	07:57:00				
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	08:31:00				
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	09:07:00				
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	09:41:00				
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	10:17:00				
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	10:54:00				
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	19-SEP-01	11:30:00				
SP101	Q1282198	A566290	BENZENE	0	10	8.14	ug/L	81.4	
SP101	Q1282198	A566290	CARBON TETRACHLORIDE	0	10	13.7	ug/L	137	
SP101	Q1282198	A566290	1,2-DICHLOROETHANE	0	10	12.3	ug/L	123	
SP101	Q1282198	A566290	1,1-DICHLOROETHENE	0	10	9.18	ug/L	91.8	
SP101	Q1282198	A566290	1,1,1-TRICHLOROETHANE	0	10	12.8	ug/L	128	
SP101	Q1282198	A566290	TRICHLOROETHENE	0	10	9.98	ug/L	99.8	
SP101	Q1282198	A566290	VINYL CHLORIDE	0	10	8.86	ug/L	88.6	
SP101	Q1282198	A566290	BROMODICHLOROMETHANE	0	10	10.9	ug/L	109	
SP101	Q1282198	A566290	BROMOFORM	0	10	10.9	ug/L	109	
SP101	Q1282198	A566290	BROMOMETHANE	0	10	8.07	ug/L	80.7	
SP101	Q1282198	A566290	CHLOROBENZENE	0	10	10.1	ug/L	101	
SP101	Q1282198	A566290	DIBROMOCHLOROMETHANE	0	10	9.84	ug/L	98.4	
SP101	Q1282198	A566290	CHLOROETHANE	0	10	9.36	ug/L	93.6	
SP101	Q1282198	A566290	CHLOROFORM	0	10	10.4	ug/L	104	
SP101	Q1282198	A566290	CHLOROMETHANE	0	10	8.36	ug/L	83.6	
SP101	Q1282198	A566290	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	8.76	ug/L	87.6	
SP101	Q1282198	A566290	1,1-DICHLOROETHANE	0	10	8.61	ug/L	86.1	
SP101	Q1282198	A566290	1,2-DICHLOROPROPANE	0	10	8.48	ug/L	84.8	
SP101	Q1282198	A566290	CIS-1,3-DICHLOROPROPENE	0	10	8.54	ug/L	85.4	
SP101	Q1282198	A566290	TRANS-1,3-DICHLOROPROPENE	0	10	9.25	ug/L	92.5	
SP101	Q1282198	A566290	ETHYL BENZENE	0	10	10.6	ug/L	106	
SP101	Q1282198	A566290	STYRENE	0	10	8.3	ug/L	83	
SP101	Q1282198	A566290	1,1,2-TRICHLOROETHANE	0	10	9.69	ug/L	96.9	
SP101	Q1282198	A566290	1,1,2,2-TETRACHLOROETHANE	0	10	8.15	ug/L	81.5	
SP101	Q1282198	A566290	TETRACHLOROETHENE	0	10	11.4	ug/L	114	
SP101	Q1282198	A566290	TOLUENE	0	10	10	ug/L	100	
SP101	Q1282198	A566290	DICHLORODIFLUOROMETHANE	0	10	9.84	ug/L	98.4	
SP101	Q1282198	A566290	TRICHLOROFUOROMETHANE	0	10	12.6	ug/L	126	
SP101	Q1282198	A566290	ACROLEIN	0	50	24.9	ug/L	49.8	
SP101	Q1282198	A566290	ACETONE (2-PROPANONE)	0	50	39.7	ug/L	79.4	
SP101	Q1282198	A566290	ACRYLONITRILE	0	50	39.2	ug/L	78.4	
SP101	Q1282198	A566290	CARBON DISULFIDE	0	10	7.65	ug/L	76.5	
SP101	Q1282198	A566290	VINYL ACETATE	0	10	6.05	ug/L	60.5	
SP101	Q1282198	A566290	4-METHYL-2-PENTANONE	0	50	40.7	ug/L	81.4	
SP101	Q1282198	A566290	2-HEXANONE	0	50	36.9	ug/L	73.8	
			Date and time of analysis	19-SEP-01	12:06:00				
DPS01	Q1282199	A566290	BENZENE	0	10	8.48	ug/L	84.8	4.1
DPS01	Q1282199	A566290	CARBON TETRACHLORIDE	0	10	13.3	ug/L	133	3.1
DPS01	Q1282199	A566290	1,2-DICHLOROETHANE	0	10	12.5	ug/L	125	1.9
DPS01	Q1282199	A566290	1,1-DICHLOROETHENE	0	10	8.92	ug/L	89.2	2.9

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q1282199	A566290	1,1,1-TRICHLOROETHANE	0	10	12.1	ug/L	121	5.2
DPS01	Q1282199	A566290	TRICHLOROETHENE	0	10	9.75	ug/L	97.5	2.3
DPS01	Q1282199	A566290	VINYL CHLORIDE	0	10	8.47	ug/L	84.7	4.5
DPS01	Q1282199	A566290	BROMODICHLOROMETHANE	0	10	11.3	ug/L	113	4
DPS01	Q1282199	A566290	BROMOFORM	0	10	10.5	ug/L	105	3.5
DPS01	Q1282199	A566290	BROMOMETHANE	0	10	12	ug/L	120	39.2
DPS01	Q1282199	A566290	CHLOROBENZENE	0	10	10.3	ug/L	103	2.5
DPS01	Q1282199	A566290	DIBROMOCHLOROMETHANE	0	10	9.97	ug/L	99.7	1.3
DPS01	Q1282199	A566290	CHLOROETHANE	0	10	9.36	ug/L	93.6	0
DPS01	Q1282199	A566290	CHLOROFORM	0	10	10.6	ug/L	106	1.4
DPS01	Q1282199	A566290	CHLOROMETHANE	0	10	7.68	ug/L	76.8	8.5
DPS01	Q1282199	A566290	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	8.12	ug/L	81.2	7.6
DPS01	Q1282199	A566290	1,1-DICHLOROETHANE	0	10	8.52	ug/L	85.2	1.1
DPS01	Q1282199	A566290	1,2-DICHLOROPROPANE	0	10	8.57	ug/L	85.7	1.1
DPS01	Q1282199	A566290	CIS-1,3-DICHLOROPROPENE	0	10	8.47	ug/L	84.7	.8
DPS01	Q1282199	A566290	TRANS-1,3-DICHLOROPROPENE	0	10	9.73	ug/L	97.3	5.1
DPS01	Q1282199	A566290	ETHYL BENZENE	0	10	10.7	ug/L	107	.6
DPS01	Q1282199	A566290	STYRENE	0	10	8.72	ug/L	87.2	4.9
DPS01	Q1282199	A566290	1,1,2-TRICHLOROETHANE	0	10	8.68	ug/L	86.8	11
DPS01	Q1282199	A566290	1,1,2,2-TETRACHLOROETHANE	0	10	7.69	ug/L	76.9	5.8
DPS01	Q1282199	A566290	TETRACHLOROETHENE	0	10	10.4	ug/L	104	9.1
DPS01	Q1282199	A566290	TOLUENE	0	10	9.89	ug/L	98.9	1.1
DPS01	Q1282199	A566290	DICHLORODIFLUOROMETHANE	0	10	9.32	ug/L	93.2	5.4
DPS01	Q1282199	A566290	TRICHLOROFLUOROMETHANE	0	10	11.8	ug/L	118	6.3
DPS01	Q1282199	A566290	ACROLEIN	0	50	28	ug/L	56	11.7
DPS01	Q1282199	A566290	ACETONE (2-PROPANONE)	0	50	43.1	ug/L	86.2	8.2
DPS01	Q1282199	A566290	ACRYLONITRILE	0	50	27.4	ug/L	54.8	35.3
DPS01	Q1282199	A566290	CARBON DISULFIDE	0	10	8	ug/L	80	4.5
DPS01	Q1282199	A566290	VINYL ACETATE	0	10	7.94	ug/L	79.4	27
DPS01	Q1282199	A566290	4-METHYL-2-PENTANONE	0	50	46.4	ug/L	92.8	13.1
DPS01	Q1282199	A566290	2-HEXANONE	0	50	41.9	ug/L	83.8	12.7
			Date and time of analysis	19-SEP-01	12:43:00				
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						

Comments

Q1282196 Analytes present greater than 1/2 of the detection limit are reported.

QC Sample Comments

* See Note for Parameter
 < Less Than Lower Detection Limit
 BDL Below Detection Limit

Approved by:

P. L. Jones RAO

(PKS8970) Page B033

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TO ENSURE PROPER HANDLING OF SAMPLES PLEASE COMPLETE THIS ENTIRE FORM

HERITAGE ENVIRONMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street

Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095

I-106227

Co. Name: <u>MSD</u>				Sample Type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Other				No. of Containers				Analyses Requested (Note special detection limits or methods)										Report To:			
Project Name: <u>LEE'S LN</u>												PCB/PES Semi Vol. Org Metals CYANIDE TOTAL VOL ORG MER CAAA										Co: <u>LOU/JEFF Co MSD</u>			
Quote No.: <u>Z127509</u> PO No.: _____																						Add: <u>LOU KY 40201</u>			
ENVIRONMENTAL PROGRAM:																						Attn: <u>DAN SAMMONS</u>			
CWA NPDES _____ IWP _____ SLUDGE _____				RCRA MW _____ SW _____ DISPOSAL _____				SDWA _____ CERCLA/SUPERFUND _____ OTHER _____				Phone: <u>502-540-6720</u>				Accelerated Turnaround Requested _____ (Subject to Additional Charge)									
Sampled by:				Result Request by: _____ Mo Day Yr				(Date must be Accepted and Approved by Lab)																	
Client ID:	Date:	Time:	Comp	Grab	Sample Description	Sample Type (Matrix):	No. of Containers	PCB/PES	Semi Vol. Org	Metals	CYANIDE TOTAL	VOL ORG	MER CAAA	Remarks:	LAB Sample No.										
	9/13/01	10:50 AM		/	MW04 27	GW	10	/	/	/	/	/	/	002160	AS6287										
		10:50 PM		/	MW04-DUP 27	GW	10	/	/	/	/	/	/	002159	288										
		12:00 PM		/	MW05 FB 27		10	/	/	/	/	/	/	002158	289										
		1:25 PM		/	MW05 27	GW	10	/	/	/	/	/	/	002157	290										
		3:45 PM		/	MW02 27	GW	10	/	/	/	/	/	/	002156	291										
		5:25 PM		/	MWB 27	GW	10	/	/	/	/	/	/	002155	292										
	9/13/01	6:50 PM		/	MWA 27	GW	10	/	/	/	/	/	/	002154	293										
Relinquished by: (Signature) <u>Evelyn Clark</u> Date/Time <u>9/13/01 7:50 PM</u>						Received by: (Signature) <u>David</u> Date/Time <u>9/13/01 7:10 PM</u>						Relinquished by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature)						Received by: (Signature)						Relinquished by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature) <u>DOUBLE D</u> Date/Time <u>1</u>						Received for Lab by: (Signature) <u>Chun Boyle</u> Date/Time <u>9-13-01/20:15</u>						Remarks		Property Preserved <u>CBS</u>		Broken Bottles <u>NO-CBS</u>									

Distribution: White original and Yellow copy to accompany sample to laboratory.
Pink copy to be retained by client.

6.8 R01